



**REPORT**

# 2020 Annual Groundwater Monitoring & Corrective Action Report

*Georgia Power Company - Plant Scherer Ash Pond 1*

Submitted to:



**Georgia Power**

**Georgia Power Company**

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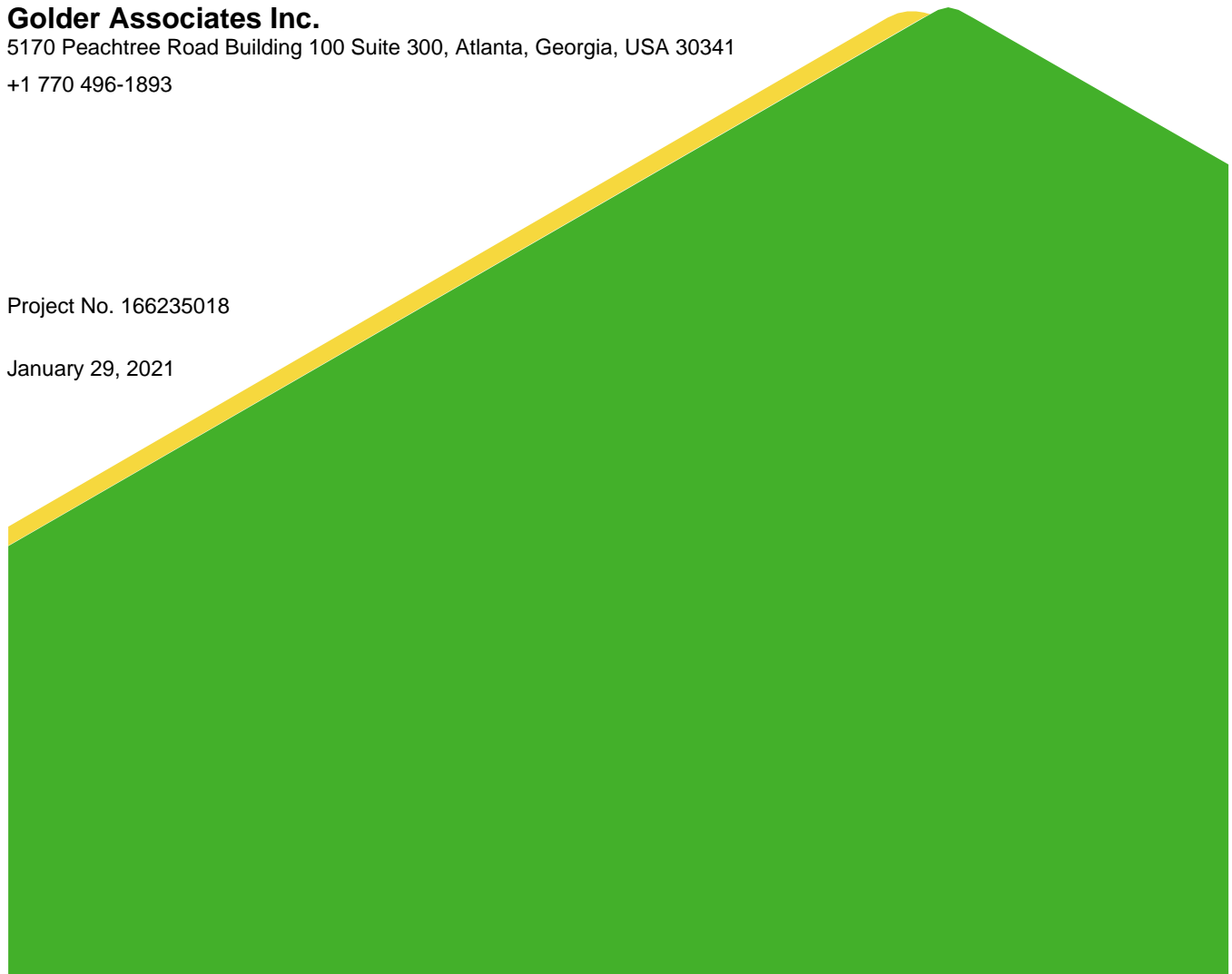
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Project No. 166235018

January 29, 2021



## Summary

This *2020 Annual Groundwater Monitoring & Corrective Action Report*, Georgia Power Company - Plant Scherer Ash Pond 1 (AP-1), Juliette, Monroe County, Georgia, provides the status of groundwater monitoring and corrective program through December 2020. Groundwater monitoring and reporting for AP-1 is performed by Golder Associates Inc. (Golder) in accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residual (CCR) Rule published in the Code of Federal Regulations Title 40 Part 257 (40 CFR Part 257, Subpart D) dated April 17, 2015 and revised July 2018, 40 CFR § 257.90 through § 257.98. 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-1. Other CCR Landfill units on-site at Plant Scherer (Cell 1 and PAC Ash Cell) are reported separately.

Plant Scherer is a coal-fired power generation facility located in northeast Monroe County approximately 5 miles south of Juliette, GA. The property occupies approximately 13,000 acres and is bounded on the south by Lake Juliette. Closure of the AP-1 unit includes consolidation of the ash within the 550-acre unit to a smaller footprint covering approximately 300 acres.

Groundwater at the Site is monitored with a system comprised of upgradient and downgradient wells for each separate CCR Unit. AP-1 network consists of seven (7) upgradient and eighteen (18) downgradient wells installed to meet federal and state monitoring requirements. Routine sampling and reporting for AP-1 began after background groundwater conditions were established between 2016 and 2018. Based on groundwater conditions at the Site, an assessment monitoring program has been implemented.

### Assessment Monitoring

Plant Scherer initiated Assessment Monitoring for AP-1 in accordance with § 257.95 by filing the Notice of Establishment of Assessment Monitoring Program on May 15, 2018. The unit remains in assessment monitoring. There have been statistically significant increases (SSIs) over background for constituents listed in Appendix III and statistically significant levels (SSLs) for constituents listed in Appendix IV, as fully described herein.

Groundwater elevation measurements were recorded at 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.



## 2020 Groundwater Monitoring Activities

- There are no changes to the AP-1 certified detection monitoring network in 2020. An alternate source demonstration (ASD) is in place for the SSLs of cobalt.
- Groundwater monitoring events for AP-1 were conducted in February (Annual), and in March and September 2020 (semi-annual). Groundwater samples were collected and analyzed for both Appendix III and Appendix IV constituents from each of the monitoring wells.
- Statistical Analyses were completed in 2020. Analytical data from the March 2020 and September 2020 monitoring events have been statistically analyzed in accordance with the site's certified statistical analysis method. For the both the March 2020 and September 2020 semi-annual monitoring events, statistical analyses indicate statistically significant increases (SSIs) above the statistical limit and statistically significant levels (SSLs) above the groundwater protection standard as summarize below. The AP-1 network remains in assessment monitoring.

Appendix III Constituent	March 2020	September 2020
Boron	SGWC-9, SGWC-11, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23	SGWC-9, SGWC-11, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Calcium	SGWC-7, SGWC-8, SGWC-9, SGWC-12, SGWC-14, SGWC-17, SGWC-18, SGWC-19, SGWC-21, SGWC-22, SGWC-23	SGWC-7, SGWC-8, SGWC-9, SGWC-12, SGWC-14, SGWC-17, SGWC-18, SGWC-19, SGWC-21, SGWC-22, SGWC-23
Chloride	SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23	SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Fluoride	SGWC-6, SGWC-7, SGWC-8, SGWC-15, SGWC-20, SGWC-21	SGWC-7, SGWC-8, SGWC-15, SGWC-20
pH	SGWC-15, SGWC-18, SGWC-20	SGWC-15, SGWC-18, SGWC-20
Sulfate	SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23	SGWC-7, SGWC-8, SGWC-9, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
TDS	SGWC-8, SGWC-9, SGWC-14, SGWC-15, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23	SGWC-8, SGWC-9, SGWC-14, SGWC-15, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Appendix IV Constituent	March 2020	September 2020
Cobalt	SGWC-10, SGWC-11, SGWC-15, SGWC-18, SGWC-20	SGWC-10, SGWC-11, SGWC-15, SGWC-18, SGWC-20

### **Alternate Source Demonstration (ASD)**

An ASD has been prepared to address SSLs for cobalt identified at SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20. The ASD concluded that the source of the elevated concentrations of cobalt is not the result of a release from AP-1 but SSLs are instead attributed to naturally-occurring cobalt in subsurface aquifer materials.

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and assessment monitoring program from January through December 2020, the Site will remain in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to EPD semi-annually.

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## Certification Statement

This 2020 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Scherer Ash Pond 1 (AP-1) has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Golder Associates.



January 29, 2021

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

Date

I hereby certify that this 2020 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company Plant Scherer-Ash Pond (AP-1) located at 10986 Georgia 87, Juliette, Georgia 31046, has been prepared to meet the requirements of 40 CFR §257.90(e).



January 29, 2021

W. Randall Sullivan, PE.  
Georgia Professional Engineer No. 13030

Date

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[https://golderassociates.sharepoint.com/sites/24912g/project files/200 reports/annual gw monitoring & corrective action report/2020 annual gwmcar report/ap-1/scherer annual\\_2020\\_ap-1\\_rpt final 1.28.2021.docx](https://golderassociates.sharepoint.com/sites/24912g/project%20files/200%20reports/annual%20gw%20monitoring%20&%20corrective%20action%20report/2020%20annual%20gwmcar%20report/ap-1/scherer%20annual_2020_ap-1_rpt%20final%201.28.2021.docx)

## 1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) 257 Subpart D and the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10 (Georgia CCR Rule), Golder Associates Inc. (Golder) has prepared this Annual Groundwater Monitoring Report to document groundwater monitoring activities conducted during 2020 at Georgia Power's Plant Scherer (Scherer) Ash Pond 1 (AP-1). This report includes the results of the annual monitoring for Appendix IV of 40 CFR 257 conducted in February 2020 and the first and second semi-annual monitoring events conducted in March and September 2020 for AP-1.

A permit application for AP-1 was submitted to GA EPD in November 2018 and is currently being reviewed by GA EPD. Although a permit has not yet been issued for AP-1, semi-annual monitoring and reporting for Plant Scherer is performed in accordance with the monitoring program requirements of the Georgia CCR Rule and the revised Groundwater Monitoring Plan for Plant Scherer AP-1, prepared by Golder Associates, November 2020.

The following sections describe the site setting and monitoring program, analytical data collected from the most recent sampling events, statistical analysis of the data, a description of groundwater flow direction and rate, and a discussion of the current findings with relevant conclusions and recommendations for future monitoring activities at the site.

### 1.1 Site Description & Background

Plant Scherer is a coal-fired power generation facility located in northeast Monroe County approximately 5 miles south of Juliette, GA. The property occupies approximately 13,000 acres and is bounded on the south by Lake Juliette. The plant is primarily surrounded by agricultural and residential use. Figure 1, Site Location Map, depicts the location of Plant Scherer relative to the surrounding area.

CCR resulting from power generation has historically been stored at AP-1. Figure 2, Site Plan and Monitoring Well Location Map depicts the general configuration of AP-1 and site monitoring wells.

The site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Overall, the property slopes gently south toward Lake Juliette and east toward the Ocmulgee River (Figure 1). AP-1 is located on a topographically high area, with several relatively small, intermittent and perennial creeks and streams surrounding the pond. Several isolated hilltops occur west of the pond and represent topographic high points on the site. Topographic relief across the site is greater than 200 feet, with a natural topographic high of over 570 feet above mean sea level (ft msl) occurring along the ridge west of the ash pond, and a topographic low of less than 380 ft msl in the eastern portion of the site near Berry Creek.

### 1.2 Regional & Site Geology & Hydrogeologic Setting

The following section includes a general description of regional geologic and hydrogeologic characteristics of formations that occur beneath the site. Information presented in this section is based on published literature, discussion with local geologic experts, and experience working in this geologic terrain (Golder, 2020a).

Plant Scherer is located within the center of the East Juliette, GA United States Geological Survey (USGS) 7.5-minute topographic quadrangle. The Piedmont/Blue Ridge geologic province contains some of the oldest rocks in the Southeastern United States. Since their origin, approximately 276 to 1100 million years ago (Ma), these late Precambrian (Neoproterozoic) to late Paleozoic (Permian) rocks have undergone repeated cycles of



igneous intrusions and extrusions, metamorphism, folding, faulting, shearing, and silicification. The latest regional metamorphism and associated deformation has been attributed to the collision of the North America plate with the Eurasian plate approximately 200 to 230 Ma. Later deformation and emplacement of mafic dikes is associated with the rifting of the North American craton during the Mesozoic and Cenozoic Eras.

The metamorphic and igneous rocks that underlie the area have been subjected to physical and chemical weathering, which has created a landscape dissected by creeks and streams forming a dendritic drainage pattern. These rocks are deeply weathered due to the humid climate and bedrock is typically overlain by a variably thick blanket of residual soils and saprolite. The overall depth of weathering in the Piedmont/Blue Ridge is generally about 20 to 60 feet; however, the depth of weathering along discontinuities and/or very feldspathic rock units may extend to depths greater than 100 feet. Because of such variations in rock types and structure, the depth of weathering can vary significantly over short horizontal distances.

The uppermost groundwater aquifer is within the overburden at the site. Boring logs and monitoring/piezometer installation logs were used to evaluate hydrostratigraphy of the site. Material types identified included residual soils, saprolitic soils, saprolitic rock (or PWR if blow counts were provided), transitionally weathered rock, and competent bedrock. Residual soils, primarily sandy silt, silty sand, sandy clay and silty clay, occur as a variably thick blanket overlying bedrock across most of the site. The thickness of the soil encountered in the borings is variable, ranging from little to no soil where outcrop is encountered at the surface, to as much as 168 feet. Thickness of saprolitic soils and/or saprolitic rock range in thickness across the site. The saturated thickness of the overburden material ranges from 2 to over 40 feet. Based on review of the logs, the screen/filter pack interval for most of the piezometers and monitoring wells installed on site provides connection to the overburden, indicating that the site is underlain by a regional groundwater aquifer that occurs within the overburden.

Field hydraulic conductivity tests (i.e., slug tests) performed in a variety of geologic materials onsite indicate an average horizontal hydraulic conductivity on the order of  $10^{-4}$  centimeters per second (cm/s) with an average of 2.36 feet/day (ft/day); median 1.31 ft/day. This hydraulic conductivity is generally consistent with regional measurements within Piedmont overburden (Heath, 1982). In general, groundwater flow is potentially faster through the transitionally weathered zone; however, the magnitude of difference is nominal enough to not be considered relevant at this site.

### 1.3 Groundwater Monitoring Well Network

A groundwater monitoring system was installed within the uppermost aquifer at Plant Scherer's AP-1. The monitoring system is intended to monitor groundwater passing the waste boundary of AP-1 within the uppermost aquifer. Wells are located upgradient, and downgradient of AP-1 based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. A network of 25 wells was installed for groundwater monitoring near AP-1. Table 1A, Monitoring Well Network Summary, includes the pertinent construction details for the AP-1 monitoring well network at Plant Scherer.

Additionally, a series of groundwater piezometers have been installed for gauging groundwater elevations. Table 1B, Piezometer Network Summary includes pertinent construction details for the AP-1 piezometer network at Plant Scherer. The detection monitoring well network has been certified by a Registered Professional Engineer in Georgia with notice of that certification in the Operating Record.

## 2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with 40 CFR §257.90(e), the following describes monitoring-related activities performed during 2020 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR §257.93. Samples were collected from each well in the certified monitoring system. The location of each of these monitoring wells is shown on Figure 2. Table 2, Groundwater Sampling Event Summary, presents a summary of groundwater sampling events completed for AP-1 in 2020.

### 2.1 Monitoring Well Installation and Maintenance

There was no change to the certified groundwater monitoring system in 2020. Monitoring well related activities were limited to visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling.

Between February 2020 and May 2020, additional site piezometers were installed at the site to further define groundwater gradient and flow direction and for additional characterization (Golder, 2020b; Golder 2020c). A copy of the well installation report for these piezometers is included in Appendix A, Piezometer Installation Report.

The AP-1 well network was re-surveyed by Jordan Engineering of Monticello, Georgia during June and July 2020. 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 location (i.e., northings and eastings) was 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). The *Well Installation and Design Report* presents a summary of the monitoring well and piezometer network for the site and presents the certified survey data and construction logs for each well and piezometer (Golder, 2020c). The new survey data are incorporated into this report's applicable tables. A copy of the survey report has been included in Appendix B, Certified Well Survey Report.

### 2.2 Assessment Monitoring

Pursuant to §257.94(e)(3), an assessment monitoring program has been established for AP-1 at Plant Scherer based on statistically significant increases documented in the *2017 Annual Groundwater Monitoring and Corrective Action Report* (Golder, 2018). A notice of assessment monitoring was placed in the operation record on May 15, 2018.

### 2.3 Additional Sampling

Additional sampling and analysis was conducted between February and May 2020 as part of additional site investigation activities. Results of this sampling were submitted to EPD on September 29, 2020 under separate cover (Golder, 2020d).

## 3.0 SAMPLE METHODOLOGY AND ANALYSIS

Groundwater sampling events were conducted for AP-1 during February, March, and September 2020. During the February 2020 sampling event, groundwater samples were collected and analyzed for Appendix IV to meet the requirement of § 257.95(b). During the March and September 2020 semi-annual sampling events, groundwater samples were collected for both Appendix III and the Appendix IV constituents detected during the February 2020 event at each detection monitoring well. Results of sampling activities conducted in 2020 are presented in Appendix C, Analytical Results, Field Data Forms, Well Inspection Forms and Data Validation Summaries.

### 3.1 Groundwater Elevation Measurement

Prior to each sampling event, groundwater elevations were recorded from each well and piezometer. Groundwater elevation data are summarized on Table 3, Summary of Groundwater Elevations. The recorded water level data were used to develop Figure 3A, AP-1 Potentiometric Surface Elevation Contour Map - March 17, 2020, Figure 3B, AP-1 Potentiometric Surface Elevation Contour Map - May 6, 2020, and Figure 3C, AP-1 Potentiometric Surface Elevation Contour Map – September 8, 2020. Review of Figures 3A, 3B, and 3C shows that groundwater generally flows east-southeast across the site and is consistent with historical observations.

### 3.2 Groundwater Gradient and Flow Velocity

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on slug test data at the site, hydraulic conductivity of approximately 1.31 to 2.36 feet per day is used in the flow calculations. The hydraulic gradient was calculated between well pairs shown on Table 4A, Horizontal Groundwater Velocity Calculations – March 2020, Table 4B, Horizontal Groundwater Velocity Calculations – May 2020 and Table 4C, Horizontal Groundwater Velocity Calculations – September 2020. An effective porosity of 0.2 was used based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996).

Horizontal flow velocity was calculated using the commonly used derivative of Darcy's Law:

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

Where:

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

$K$  = Average Hydraulic Conductivity of the aquifer  $\left(\frac{\text{feet}}{\text{day}}\right)$

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

$n_e$  = Effective porosity

Using this equation and groundwater elevation data from September 2020, horizontal groundwater velocities are calculated for various areas of the site and are tabulated on Tables 4A, 4B and 4C.

As presented on Tables 4A, 4B and 4C groundwater flow velocity at the site ranges from approximately 0.05 ft/day to 0.2 ft/day across AP-1 and are generally consistent with expected velocities in the regolith-upper bedrock aquifer. This groundwater flow velocity confirms the groundwater monitoring network is properly located to monitor the uppermost aquifer for AP-1 at Plant Scherer.

### 3.3 Groundwater Sampling

Groundwater samples were collected in accordance with §257.93(a). Monitoring wells were purged and sampled using low-flow sampling procedures. Dedicated and/or non-dedicated peristaltic and low-flow pneumatic bladder pumps were used to purge and sample the wells. During the purging of each well, field measurements of temperature, specific conductance, dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP) were recorded using a SmarTroll® (In-Situ® field instrument) along with a separate turbidity meter to verify stabilization.

Groundwater samples were collected when the following general stabilization criteria were met:

- 0.1 standard units for pH

- 5% for specific conductance
- $\pm 10\%$  for DO where  $DO > 0.5$  milligrams per liter (mg/L); if  $DO < 0.5$  mg/L, no stabilization criteria apply
- Turbidity measurements less than 5 nephelometric turbidity units (NTU)

Following well stabilization, unfiltered samples were collected directly into appropriately preserved laboratory supplied sample containers, placed in iced coolers, and submitted to the laboratory following standard chain-of-custody protocol. Field data forms generated directly from the SmarTroll® as well as chain-of-custody records are included in Appendix C.

Environmental monitoring field data sheets are included with the analytical reports in Appendix C. 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.

### 3.4 Laboratory Analyses

Groundwater samples were collected during three monitoring events in 2020. During the February 2020 sampling event, wells were sampled and analyzed for Appendix IV monitoring parameters pursuant to 40 CFR §257.95(b). The March and September 2020 sampling events represent the first and second semiannual sampling events in 2020, respectively, for AP-1 at Plant Scherer. Because AP-1 is currently in assessment monitoring, groundwater samples from site monitoring wells were analyzed for Appendix III and the detected Appendix IV monitoring parameters per 40 CFR Parts 257. Tables 5A, 5B and 5C, Analytical Data Summary, presents a tabulated summary of the 2020 sample results.

The required laboratory analyses were performed by Eurofins TestAmerica Laboratory (TAL) located in Pittsburgh, Pennsylvania. TAL is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed for this project. Groundwater data and chain of custody records for the monitoring events are presented in Appendix C.

### 3.5 Quality Assurance & Quality Control Summary

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of one sample per every 10 samples. Equipment blanks (where non-dedicated sampling equipment is used), field blanks, and duplicate samples were also collected during each sampling event. QA/QC sample data was evaluated during data validation and is included in Appendix C.

Groundwater quality data in this report was independently validated in accordance with US EPA Region IV Data Validation Standard Operating Procedures (USEPA, 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 and relative percent differences, laboratory and field duplicate relative percent difference (RPDs), field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data per USEPA procedures and guidance. Data validation summary reports prepared by Golder are included in Appendix C. Flagged data identified in the statistical analysis reports are described in the following section. Data has been deemed valid and appropriate for use in statistical analyses.

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.

Radium results reported for the September sampling event required re-extraction due to laboratory quality control issues (i.e., the laboratory control standard failed low). Reported results are inconsistent with historical data at several locations. Resampling for radium will be conducted during the next scheduled sampling event.

## 4.0 STATISTICAL ANALYSES

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-1.

### 4.1 Statistical Method

The selected statistical method for AP-1 was developed in accordance with § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (Unified Guidance). The Sanitas Groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA Unified Guidance (2009) document. A summary table of the statistical results accompanies the prediction limits for Appendix III and confidence intervals for Appendix IV in Appendix D, Statistical Analyses.

The following table provides a summary of the statistical methodology used at AP-1 for the March and September 2020 monitoring events.

PLANT SCHERER AP-1 STATISTICAL METHOD SUMMARY		
Monitoring Well Network	Upgradient Wells	SGWA-1, SGWA-2, SGWA-3, SGWA-4, SGWA-5, SGWA-24, and SGWA-25
	Downgradient Wells	SGWC-6, SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, and SGWC-23
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
	Appendix IV (Assessment Monitoring)	Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium
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.

PLANT SCHERER AP-1 STATISTICAL METHOD SUMMARY		
	Verification Resample Plan (Optional)	1-of-3 with minimum of 8 samples per well for interwell testing. <ul style="list-style-type: none"> <li>▪ Initial statistical exceedance warrants independent resampling within 90 days.</li> <li>▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI).</li> <li>▪ If resample exceeds, well/parameter has a confirmed SSI.</li> </ul> If no resample is collected, the original result is deemed verified.

The following guidance is also applicable to the statistical analysis method:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain less than or equal to 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 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 Statistical Methods

Appendix III statistical analyses groundwater monitoring data was 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

For the Assessment Monitoring Program (Appendix IV constituents), parametric tolerance limits were used to calculate site specific background limits from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the 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, Rule Specified Limit (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); or
- The respective background level for a constituent when the background level is higher than the MCL or rule identified GWPS.

USEPA revised the Federal CCR Rule on July 30, 2018, providing updated GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Those updated GWPS have not yet been incorporated into the Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, 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.

Consistent with applicable regulatory requirements, GWPSs were established for statistical comparison of Appendix IV constituents. Table 4.1.2, Summary of Background Levels and GWPSs, presented below, summarizes the background limit established at each monitoring well and the corresponding GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS 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, a statistically significant level (SSL) exceedance is identified.

TABLE 4.1.2 Summary of Background Levels and GWPSs					
Analyte	Units	Site Specific Background March 2020 <sup>[1]</sup>	Site Specific Background September 2020 <sup>[1]</sup>	Federally Derived GWPS <sup>[2]</sup>	State-Derived GWPS <sup>[3]</sup>
Antimony	mg/L	0.0021	0.0021	0.006	0.006
Arsenic	mg/L	0.0015	0.0015	0.01	0.01
Barium	mg/L	0.071	0.071	2	2
Beryllium	mg/L	0.0025	0.0025	0.004	0.004
Cadmium	mg/L	0.0025	0.0025	0.005	0.005
Chromium	mg/L	0.02	0.021	0.1	0.1
Cobalt	mg/L	0.02	0.02	0.02	0.02
Fluoride	mg/L	0.108	0.11	4	4
Lead	mg/L	0.001 <sup>[4]</sup>	0.001 <sup>[4]</sup>	0.015	0.001
Lithium	mg/L	0.005 <sup>[4]</sup>	0.005 <sup>[4]</sup>	0.04	0.005
Mercury	mg/L	0.0005	0.0005	0.002	0.002
Molybdenum	mg/L	0.015	0.015	0.1	0.015
Radium (226 + 228)	pCi/L	1.2	1.2	5	5
Selenium	mg/L	0.005	0.005	0.05	0.05
Thallium	mg/L	0.001	0.001	0.002	0.002

Notes:

mg/L = milligrams per liter; pCi/L = picocuries per liter

- [1] The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).
- [2] Under 40 CFR §257(h)(1-3) the GWPS is: (i) the MCL/RSL, (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 or rule-specified GWPS.
- [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 SAP, and in accordance with the Unified Guidance, a non-parametric limit approach was used since 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.

Tolerance limits for confidence interval calculations are updated to include current data for each of the events. Due to varying reporting limits in background, the most recent reporting limit is used when data is not reported above detection limits.

## 4.2 Statistical Analysis Results

Analytical data from the first and second semi-annual monitoring events conducted in March and September 2020 at AP-1 have been statistically analyzed in accordance with the site's Statistical Analysis Plan. Verification resampling to confirm initial SSIs was not performed; therefore, initial SSIs are considered verified. The statistical results of the March and September 2020 monitoring event are included in Appendix D.

### 4.2.1 First Semi-Annual 2020 Appendix III Statistical Results

Based on the statistical results presented in Appendix D, SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and TDS at various wells were identified following the March 2020 semi-annual monitoring event. A detailed list of the noted exceedances is provided in Appendix D. Based on review of the Appendix III statistical analyses results, Appendix III constituents have not returned to background levels and assessment monitoring will continue pursuant to 40 CFR 257.94(f).

### 4.2.2 First Semi-Annual 2020 Assessment Monitoring Statistical Results

Analytical data from the March 2020 monitoring event at AP-1 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-1 Confidence Interval Statistically Significant Level Exceedances March 2020	
Appendix IV Parameter	AP-1 Monitoring Well
Cobalt	SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20

### 4.2.3 Second Semi-Annual 2020 Appendix III Statistical Results

Based on the statistical results presented in Appendix D, SSIs of boron, calcium, chloride, fluoride, pH, sulfate, and TDS at various wells were identified following the September 2020 annual monitoring event. A detailed list of the noted exceedances is provided in Appendix D. Based on review of the Appendix III statistical analyses results, Appendix III constituents remain above background levels and assessment monitoring will continue pursuant to 40 CFR 257.94(f).



#### 4.2.4 Second Semi-Annual 2020 Assessment Monitoring Statistical Results

Analytical data from the September 2020 monitoring event at AP-1 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-1 Confidence Interval Statistically Significant Level Exceedances March 2020	
Appendix IV Parameter	AP-1 Monitoring Well
Cobalt	SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20

#### 4.3 Alternate Source Demonstration

In accordance with 40 CFR § 257.95, an alternate source demonstration (ASD) was prepared for cobalt at AP-1 (Golder, 2019). In summary, the ASD identified multiple lines of evidence that support the conclusion that the SSLs of cobalt present in compliance monitoring wells are not the result of impact by AP-1, but rather from an alternate, naturally occurring source. The following lines of evidence support an ASD for concentrations of cobalt in groundwater downgradient of AP-1:

- Absence of cobalt in porewater samples collected from AP-1;
- Presence of naturally occurring cobalt in soils/sediment, saprolite, and bedrock at Plant Scherer;
- Occurrence of cobalt in upgradient groundwater at concentrations above the RSL;
- Natural dissolution of cobalt into groundwater at low pH under natural aquifer environment based on site-specific mineralogical data and geochemical conditions; and
- Published sources of naturally occurring cobalt in groundwater.

Review of groundwater quality data since monitoring began at AP-1 in 2016, demonstrate a spatial variability in cobalt concentrations across the site including upgradient of AP-1.

#### 5.0 MONITORING PROGRAM STATUS

Statistical evaluations of the groundwater monitoring data for AP-1 confirms SSIs of Appendix III groundwater monitoring parameters above background and SSLs of Appendix IV groundwater monitoring parameters (cobalt) above the groundwater protection standard. In accordance with 40 CFR §257.95(g)(3), an ASD was previously submitted for cobalt. Based on the results of the March and September 2020 sampling events, AP-1 will remain in assessment monitoring.

#### 6.0 CONCLUSIONS AND FUTURE ACTIONS

This 2020 *Annual Groundwater Monitoring & Corrective Action Report*, Georgia Power Plant Scherer Solid Waste Facility Ash Pond 1 was prepared to fulfill the requirements of US EPA's 40 CFR §257.95 and Georgia EPD's 391-3-4-.10. The groundwater flow direction interpreted during 2020 is consistent with historical evaluations.

Review of analytical results and statistical analyses developed for the site indicates that statistical exceedances identified during the first and second semi-annual 2020 events can be addressed by the previously submitted

ASD and can be attributed to natural variability in groundwater chemistry (Golder, 2019). The monitoring well network continues to effectively monitor the uppermost aquifer beneath AP-1.

Based on the findings presented herein, Plant Scherer will continue with assessment groundwater monitoring and reporting. The next scheduled sampling event is tentatively scheduled for February 2021.

## 7.0 REFERENCES

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## TABLES & FIGURES

**TABLE 1A**  
**MONITORING WELL NETWORK SUMMARY**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Hydraulic Location	Screened Matrix	Latitude	Longitude	Ground Surface Elevation (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD88) <sup>2</sup>	Bottom of Screen Elevation (feet NAVD88) <sup>2</sup>	Screen Length (feet)	Date of Installation
<b>ASH POND MONITORING WELL NETWORK</b>											
SGWA-1	Upgradient	Overburden	33.076568	-83.829372	544.1	546.83	50.9	503.57	493.57	10	2/11/2015
SGWA-2	Upgradient	Bedrock	33.076581	-83.829345	544.0	546.94	95.8	458.55	448.55	10	2/17/2015
SGWA-3	Upgradient	Overburden	33.079297	-83.831331	542.9	545.83	50	502.88	492.88	10	11/18/2015
SGWA-4	Upgradient	Overburden	33.082725	-83.825350	544.8	547.66	60.5	494.31	484.31	10	11/17/2015
SGWA-5	Upgradient	Overburden	33.073444	-83.837459	505.7	508.48	30	485.53	475.53	10	11/18/2015
SGWC-6	Downgradient	Overburden	33.084614	-83.822550	507.7	510.49	25	492.67	482.67	10	11/12/2015
SGWC-7	Downgradient	Bedrock	33.085990	-83.821631	503.5	506.40	35	478.45	468.45	10	11/11/2015
SGWC-8	Downgradient	Overburden/Bedrock	33.086526	-83.819279	511.5	514.28	40	481.48	471.48	10	11/11/2015
SGWC-9	Downgradient	Overburden	33.085885	-83.817728	507.6	510.62	35	482.63	472.63	10	11/6/2015
SGWC-10	Downgradient	Overburden	33.083849	-83.815804	506.6	509.41	30	486.60	476.60	10	11/5/2015
SGWC-11	Downgradient	Overburden	33.082875	-83.814877	508.6	511.47	40	478.62	468.62	10	10/29/2015
SGWC-12	Downgradient	Overburden	33.082964	-83.812664	497.7	500.53	47.6	460.70	450.70	10	10/30/2015
SGWC-13	Downgradient	Overburden	33.082127	-83.810214	479.9	482.71	35	454.92	444.92	10	11/4/2015
SGWC-14	Downgradient	Overburden	33.081273	-83.808361	473.3	476.72	35.3	448.52	438.52	10	2/24/2015
SGWC-15	Downgradient	Overburden	33.079136	-83.805875	479.7	482.75	45.2	444.86	434.86	10	2/26/2015
SGWC-16	Downgradient	Overburden	33.076470	-83.805684	457.0	460.31	39.2	428.23	418.23	10	3/3/2015
SGWC-17	Downgradient	Overburden	33.073960	-83.805330	414.9	418.00	24.5	400.83	390.83	10	3/11/2015
SGWC-18	Downgradient	Overburden	33.070223	-83.806443	510.3	513.29	44.5	476.21	466.21	10	3/17/2015
SGWC-19	Downgradient	Overburden	33.067693	-83.809176	475.8	478.94	34.6	451.63	441.63	10	3/18/2015
SGWC-20	Downgradient	Overburden	33.067690	-83.811753	501.5	504.60	25	486.49	476.49	10	11/19/2015
SGWC-21	Downgradient	Overburden	33.066021	-83.815384	484.7	487.67	24.9	470.17	460.17	10	5/6/2015
SGWC-22	Downgradient	Overburden	33.066390	-83.819285	515.4	518.02	50.1	478.91	468.91	10	1/22/2015
SGWC-23	Downgradient	Bedrock	33.069569	-83.822115	520.0	523.10	49.7	480.72	470.72	10	2/3/2015
SGWA-24	Upgradient	Overburden	33.073507	-83.826630	489.3	492.38	40	461.62	451.62	10	2/10/2015
SGWA-25	Upgradient	Overburen	33.080194	-83.826233	523.2	526.49	45.0	488.60	478.60	10	2/18/2015

**Notes:**

ft = feet; feet bgs = feet below ground surface; ft BTOC = feet below top of casing

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

(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.

**TABLE 1B**  
**PIEZOMETER WELL NETWORK SUMMARY**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Hydraulic Location	Screened Matrix	Latitude	Longitude	Ground Surface Elevation (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD88) <sup>2</sup>	Bottom of Screen Elevation (feet NAVD88) <sup>2</sup>	Screen Length (feet)	Date of Installation
<b>ASH POND PIEZOMETERS</b>											
PZ-2I	Downgradient	Bedrock	33.066403	-83.819321	514.8	517.56	84.4	440.91	430.91	10	1/27/2015
PZ-3S	Downgradient	Overburden	33.067892	-83.820807	514.4	517.29	50	474.77	464.77	10	1/29/2015
PZ-5I	Downgradient	Bedrock	33.071744	-83.823133	520.6	523.26	47	484.03	474.03	10	2/4/2015
PZ-6S	Downgradient	Overburden	33.072919	-83.822737	529.0	531.54	54.8	484.62	474.62	10	2/4/2015
PZ-9I	Upgradient	Bedrock	33.080214	-83.826214	523.3	526.57	80.2	453.51	443.51	10	2/19/2015
PZ-10S	Downgradient	Overburden	33.085085	-83.823237	514.4	517.53	34.9	489.88	479.88	10	5/5/2015
PZ-11S	Downgradient	Overburden	33.087361	-83.819968	526.0	529.31	45.9	490.54	480.54	10	4/6/2015
PZ-12S	Downgradient	Overburden	33.086022	-83.817195	514.5	517.69	44.4	480.54	470.54	10	4/1/2015
PZ-13S	Downgradient	Overburden	33.084016	-83.815214	517.5	520.51	45.3	482.58	472.58	10	4/1/2015
PZ-14I	Downgradient	Bedrock	33.083761	-83.813273	509.7	512.89	95.2	424.93	414.93	10	3/25/2015
PZ-14S	Downgradient	Overburden	33.083724	-83.813279	508.7	512.13	44.9	474.18	464.18	10	3/26/2015
PZ-15S	Downgradient	Overburden	33.082712	-83.810873	497.4	500.60	40.1	467.74	457.74	10	4/28/2015
PZ-17I	Downgradient	Bedrock	33.079133	-83.805831	479.9	483.03	97.3	393.20	383.20	10	2/27/2015
PZ-19I	Downgradient	Bedrock	33.074729	-83.805379	414.5	417.76	71.9	353.04	343.04	10	3/4/2015
PZ-19S	Downgradient	Overburden	33.074726	-83.805411	414.5	417.80	25	399.94	389.94	10	3/4/2015
PZ-20I	Downgradient	Bedrock	33.073986	-83.805311	414.3	417.41	79.6	345.11	335.11	10	3/10/2015
PZ-21S	Downgradient	Overburden	33.072122	-83.806189	470.6	473.74	23.4	457.60	447.60	10	3/12/2015
PZ-25I	Downgradient	Overburden	33.083685	-83.814087	525.8	528.39	125	410.97	400.97	10	5/24/2016
PZ-25S	Downgradient	Overburden	33.083713	-83.814105	525.5	528.24	55	480.78	470.68	10	5/25/2016
PZ-26S	Downgradient	Overburden	33.083286	-83.810301	489.1	491.65	45	454.27	444.27	10	6/1/2016
PZ-27D	Downgradient	Bedrock	33.082905	-83.809356	472.4	475.43	125	367.61	347.61	20	6/17/2016
PZ-27S	Downgradient	Overburden	33.082923	-83.809339	473.1	475.80	45	438.33	428.33	10	5/26/2016
PZ-28I	Downgradient	Bedrock	33.082449	-83.808213	481.4	484.18	70	422.84	412.84	10	6/3/2016
PZ-29S	Downgradient	Overburden	33.082103	-83.807416	488.5	491.31	45.0	453.70	443.70	10	5/26/2016
PZ-30I	Downgradient	Bedrock	33.081561	-83.805914	475.6	478.31	85.3	400.46	390.46	10	6/2/2016
PZ-31I	Downgradient	Bedrock	33.081916	-83.804715	464.0	466.89	75.1	399.06	389.06	10	6/2/2016
PZ-32D	Downgradient	Bedrock	33.081599	-83.803823	462.4	465.42	126.0	366.56	336.56	30	6/1/2016
PZ-32S	Downgradient	Overburden	33.081598	-83.803892	462.3	465.06	55.0	417.47	407.47	10	6/1/2016

**TABLE 1B**  
**PIEZOMETER WELL NETWORK SUMMARY**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Hydraulic Location	Screened Matrix	Latitude	Longitude	Ground Surface Elevation (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD88) <sup>2</sup>	Bottom of Screen Elevation (feet NAVD88) <sup>2</sup>	Screen Length (feet)	Date of Installation
<b>ASH POND PIEZOMETERS - continued</b>											
PZ-33I	Downgradient	Overburden	33.082014	-83.799431	466.4	469.38	76.0	400.65	390.65	10	6/8/2016
PZ-34S	Downgradient	Overburden	33.082249	-83.798698	440.8	443.67	45.5	405.53	395.53	10	6/4/2016
PZ-35I	Downgradient	Overburden	33.083014	-83.809241	474.6	474.40	55.5	429.27	419.27	10	6/22/2016
PZ-36I	Downgradient	Bedrock	33.079738	-83.805343	478.9	481.52	95.5	393.56	383.56	10	6/5/2016
PZ-36S	Downgradient	Overburden	33.079711	-83.805370	479.4	482.35	55.4	434.40	424.40	10	8/22/2018
PZ-37I	Downgradient	Overburden/Bedrock	33.081837	-83.801538	479.5	482.18	71.2	418.48	408.48	10	6/2/2016
PZ-38I	Downgradient	Overburden	33.082674	-83.808280	482.2	482.24	74.0	418.43	408.43	10	6/23/2016
PZ-39S	Downgradient	Overburden	33.079097	-83.804646	471.8	474.58	76.4	405.79	395.79	10	8/21/2018
PZ-40I	Downgradient	Bedrock	33.070257	-83.806431	510.1	512.55	83.4	437.09	427.09	10	8/15/2018
PZ-41S	Downgradient	Overburden	33.069813	-83.805812	488.6	491.50	45.0	453.56	443.56	5	8/16/2018
PZ-42I	Downgradient	Bedrock	33.067671	-83.811797	500.5	503.18	105.0	414.45	404.45	10	8/21/2018
PZ-43S	Downgradient	Overburden	33.066527	-83.811107	501.2	504.03	55	460.69	450.69	10	8/17/2018
PZ-44I	Downgradient	Bedrock	33.082801	-83.814884	507.9	510.36	114	403.86	393.86	10	9/5/2018
PZ-45D	Downgradient	Bedrock	33.093230	-83.828163	509.7	512.33	165	399.74	344.74	55	3/9/2020
PZ-46D	Downgradient	Overburden/Bedrock	33.088320	-83.825986	447.1	450.28	53.5	423.57	393.57	30	3/17/2020
PZ-47D	Downgradient	Bedrock	33.096840	-83.814708	406.8	410.01	25.1	396.66	381.66	15	3/11/2020
PZ-48S	Downgradient	Overburden	33.092406	-83.810112	441.3	444.33	61	390.55	380.55	10	3/4/2020
PZ-49D	Downgradient	Bedrock	33.088003	-83.794342	364.9	367.41	106	288.88	258.88	30	3/6/2020
PZ-49S	Downgradient	Overburden	33.088016	-83.794372	365.2	367.89	25.5	350.19	340.19	10	3/7/2020
PZ-50D	Upgradient	Bedrock	33.032222	-83.802111	470.7	473.78	100	380.66	370.66	10	3/18/2020
PZ-51D	Upgradient	Bedrock	33.076587	-83.829192	543.2	546.04	126	427.17	417.17	10	3/8/2020
PZ-52	Downgradient	Overburden	33.086401	-83.817179	519.4	521.84	77	452.43	442.43	10	3/17/2020
PZ-53	Downgradient	Overburden	33.083943	-83.813301	513.6	516.64	45	478.61	468.61	10	3/19/2020
PZ-54	Downgradient	Overburden	33.082765	-83.807620	490.2	492.96	45	455.17	445.17	10	3/19/2020
PZ-55	Downgradient	Overburden	33.083900	-83.799200	444.2	447.21	36	418.15	408.15	10	3/20/2020
PZ-56	Downgradient	Bedrock	33.088279	-83.799430	430.8	433.68	46	395.10	385.10	10	3/19/2020
PZ-57	Downgradient	Overburden/Bedrock	33.087968	-83.804964	436.4	439.51	59	387.45	377.45	10	3/19/2020
PZ-58	Downgradient	Overburden	33.087697	-83.812001	489.3	492.21	46	453.25	443.25	10	3/16/2020

**TABLE 1B**  
**PIEZOMETER WELL NETWORK SUMMARY**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Hydraulic Location	Screened Matrix	Latitude	Longitude	Ground Surface Elevation (feet NAVD88) <sup>2</sup>	Top of Casing Elevation (feet NAVD88) <sup>2</sup>	Well Depth (feet bgs)	Top of Screen Elevation (feet NAVD88) <sup>2</sup>	Bottom of Screen Elevation (feet NAVD88) <sup>2</sup>	Screen Length (feet)	Date of Installation
<b>ASH POND PIEZOMETERS - continued</b>											
PZ-59D	Downgradient	Bedrock	33.092979	-83.803941	382.9	385.86	69	328.86	313.86	15	3/27/2020
PZ-59S	Downgradient	Overburden	33.092935	-83.803976	382.8	385.93	24	368.83	358.83	10	3/20/2020
PZ-60D	Downgradient	Bedrock	33.090722	-83.802077	386.4	389.34	99.7	317.03	286.73	30	3/29/2020
PZ-60S	Downgradient	Overburden	33.090694	-83.802074	386.4	389.88	20	376.36	366.36	10	3/31/2020
PZ-61	Downgradient	Overburden/Bedrock	33.085570	-83.801156	436.8	439.27	49.45	397.34	387.34	10	4/11/2020
PZ-62	Downgradient	Overburden	33.085134	-83.808851	498.3	501.32	52.25	456.00	446.00	10	4/9/2020
PZ-63	Downgradient	Bedrock	33.089510	-83.815737	498.9	501.54	40	468.87	458.87	10	4/12/2020
PZ-64	Downgradient	Bedrock	33.088853	-83.808088	476.0	479.52	70	416.99	406.99	10	4/8/2020
PZ-65	Downgradient	Overburden	33.083929	-83.803769	429.6	432.42	30.25	409.57	399.57	10	4/11/2020
PZ-66D	Downgradient	Bedrock	33.091357	-83.799509	424.4	427.60	266	-	-	open borehole	4/2/2020
PZ-66	Downgradient	Bedrock	33.091410	-83.799223	418.4	421.24	60	373.38	358.38	15	5/8/2020
PZ-67D	Downgradient	Bedrock	33.094444	-83.802007	424.7	428.48	301	-	-	open borehole	4/1/2020
PZ-67	Downgradient	Overburden	33.094492	-83.802041	423.2	425.94	39.75	393.47	383.47	10	4/25/2020
PZ-68	Downgradient	Overburden	33.092672	-83.805533	392.1	395.55	20	382.14	372.14	10	4/15/2020
LPZ-01	Upgradient	Overburden/Bedrock	33.070447	-83.833922	550.0	553.29	65.8	495.97	485.97	10	11/10/2015
LPZ-02	Upgradient	Overburden	33.078617	-83.835551	511.1	514.52	20.0	501.07	491.07	10	11/20/2015
LPZ-03	Upgradient	Overburden	33.072871	-83.833443	512.2	515.45	35.0	487.15	477.15	10	11/18/2015
LPZ-04	Upgradient	Overburden	33.067604	-83.838600	458.1	461.24	32.0	440.11	430.11	10	11/19/2015
LPZ-05	Upgradient	Overburden	33.065839	-83.830070	521.5	524.51	53	479.41	469.41	10	11/5/2015

**Notes:**

- ft = feet; feet bgs = feet below ground surface; ft BTOC = feet below top of casing
- (1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
- (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
- (3) Total well depth accounts for sump if data provided on well construction logs.
- (4) - = not applicable



**TABLE 2**  
**GROUNDWATER SAMPLING EVENT SUMMARY**  
**Georgia Power Company - Plant Scherer**  
**Juliette, Georgia**

Well ID	Hydraulic Location	Summary of Sampling Event			Status of Monitoring Well
		February 2020	March 2020	September 2020	
Purpose of Sampling Event		Annual Appendix IV Scan	Detection / Assessment	Detection / Assessment	
<b>ASH POND (AP-1)</b>					
SGWA-1	Upgradient	Scan 3	A06	A07	Assessment
SGWA-2	Upgradient	Scan 3	A06	A07	Assessment
SGWA-3	Upgradient	Scan 3	A06	A07	Assessment
SGWA-4	Upgradient	Scan 3	A06	A07	Assessment
SGWA-5	Upgradient	Scan 3	A06	A07	Assessment
SGWC-6	Downgradient	Scan 3	A06	A07	Assessment
SGWC-7	Downgradient	Scan 3	A06	A07	Assessment
SGWC-8	Downgradient	Scan 3	A06	A07	Assessment
SGWC-9	Downgradient	Scan 3	A06	A07	Assessment
SGWC-10	Downgradient	Scan 3	A06	A07	Assessment
SGWC-11	Downgradient	Scan 3	A06	A07	Assessment
SGWC-12	Downgradient	Scan 3	A06	A07	Assessment
SGWC-13	Downgradient	Scan 3	A06	A07	Assessment
SGWC-14	Downgradient	Scan 3	A06	A07	Assessment
SGWC-15	Downgradient	Scan 3	A06	A07	Assessment
SGWC-16	Downgradient	Scan 3	A06	A07	Assessment
SGWC-17	Downgradient	Scan 3	A06	A07	Assessment
SGWC-18	Downgradient	Scan 3	A06	A07	Assessment
SGWC-19	Downgradient	Scan 3	A06	A07	Assessment
SGWC-20	Downgradient	Scan 3	A06	A07	Assessment
SGWC-21	Downgradient	Scan 3	A06	A07	Assessment
SGWC-22	Downgradient	Scan 3	A06	A07	Assessment
SGWC-23	Downgradient	Scan 3	A06	A07	Assessment
SGWA-24	Upgradient	Scan 3	A06	A07	Assessment
SGWA-25	Upgradient	Scan 3	A06	A07	Assessment

**Notes:**

Axx - Assessment Monitoring Event Number

**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Top of Casing Elevation (feet/MSL)	GROUNDWATER ELEVATIONS (FEET MSL)		
		3/16/2020	5/6/2020	9/8/2020
<b>ASH POND</b>				
SGWA-1	546.83	510.31	512.08	508.48
SGWA-2	546.94	512.11	513.25	508.56
SGWA-3	545.83	516.27	516.44	512.90
SGWA-4	547.66	496.17	497.61	499.71
SGWA-5	508.48	495.33	495.63	494.78
SGWC-6	510.49	496.14	496.62	496.47
SGWC-7	506.40	492.30	493.07	493.14
SGWC-8	514.28	492.44	493.27	493.04
SGWC-9	510.62	491.39	491.46	490.09
SGWC-10	509.41	493.32	492.61	491.05
SGWC-11	511.47	494.00	493.18	491.53
SGWC-12	500.53	486.59	486.40	484.81
SGWC-13	482.71	478.61	478.18	477.82
SGWC-14	476.72	466.58	466.29	465.89
SGWC-15	482.75	457.89	457.44	455.10
SGWC-16	460.31	441.37	439.06	436.35
SGWC-17	418.00	417.14	417.11	417.10
SGWC-18	513.29	478.42	478.73	475.20
SGWC-19	478.94	464.66	464.03	462.74
SGWC-20	504.60	493.09	492.29	490.67
SGWC-21	487.67	487.67	487.67	487.28
SGWC-22	518.02	495.37	494.56	491.57
SGWC-23	523.10	495.98	496.59	493.68
SGWA-24	492.38	479.36	478.98	477.28
SGWA-25	526.49	500.36	501.18	500.31

**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Top of Casing Elevation (feet/MSL)	GROUNDWATER ELEVATIONS (FEET MSL)		
		3/16/2020	5/6/2020	9/8/2020
<b>PIEZOMETERS</b>				
PZ-2I	517.56	494.70	493.87	490.96
PZ-3S	517.29	493.01	492.61	489.66
PZ-5I	523.26	487.58	487.36	486.23
PZ-6S	531.54	495.64	496.16	495.37
PZ-9I	526.57	500.03	501.24	500.74
PZ-10S	517.53	495.08	495.74	494.98
PZ-11S	529.31	491.22	492.21	491.81
PZ-12S	517.69	489.81	490.30	488.84
PZ-13S	520.51	492.05	492.33	489.96
PZ-14S	512.13	490.74	490.41	487.52
PZ-14I	512.89	490.76	490.19	487.51
PZ-15S	500.60	482.35	481.81	481.40
PZ-17I	483.03	458.24	457.76	455.40
PZ-19I	417.76	415.89	415.29	414.44
PZ-19S	417.80	414.87	414.49	413.79
PZ-20I	417.41	415.37	415.16	415.00
PZ-21S	473.74	467.23	466.63	464.44
PZ-25S	528.24	492.76	492.92	489.59
PZ-25I	528.39	493.30	492.84	489.35
PZ-26S	491.65	477.24	476.77	475.07
PZ-27S	475.80	472.30	471.65	470.05
PZ-27D	43.00	43.00	43.00	40.96
PZ-28I	484.18	468.15	467.50	465.66
PZ-29S	491.31	462.77	462.94	460.81
PZ-30I	478.31	451.30	452.18	449.19
PZ-31I	466.89	440.49	441.28	438.07
PZ-32S	465.06	442.12	443.57	439.99
PZ-32D	465.42	439.53	440.67	437.89
PZ-33I	469.38	426.38	428.23	427.44
PZ-34S	443.67	428.84	428.98	425.44

**TABLE 3**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Top of Casing Elevation (feet/MSL)	GROUNDWATER ELEVATIONS (FEET MSL)		
		3/16/2020	5/6/2020	9/8/2020
<b>PIEZOMETERS</b>				
PZ-35I	474.40	470.89	NM	469.83
PZ-36S	482.35	453.57	453.36	449.39
PZ-36I	481.52	455.42	455.21	451.67
PZ-37I	482.18	431.91	433.27	434.82
PZ-38I	482.24	NM	NM	466.28
PZ-39S	474.58	444.04	444.58	440.48
PZ-40I	512.55	479.66	479.78	475.75
PZ-41S	491.50	464.19	465.16	464.70
PZ-42I	503.18	494.64	494.03	492.60
PZ-43S	504.03	484.00	483.72	481.69
PZ-44I	510.36	493.87	493.13	491.16
LPZ-01	553.29	494.10	495.57	496.69
LPZ-02	514.52	511.41	511.52	510.80
LPZ-03	515.45	509.68	509.49	506.10
LPZ-04	461.24	449.30	449.57	446.84
LPZ-05	524.51	478.63	478.87	480.34

Notes:

feet/MSL = feet above mean sea level

**TABLE 4A**  
**HORIZONTAL GROUNDWATER VELOCITY CALCULATIONS - March 2020**  
**Georgia Power - Plant Scherer Ash Pond**  
**Juliette, GA**

Flow Paths	Groundwater Elevation (feet msl)	$\Delta H$ (feet) <sup>2</sup>	$\Delta L$ (feet) <sup>3</sup>	Hydraulic Gradient ( $\Delta h/\Delta l$ )	Average Hydraulic Conductivity, K (feet per day) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ )	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>AP-1 March 2020</b>								
SGWC-14/PZ-29S	466.34	3.86	400	0.010	1.31 to 2.36	0.2	0.06 to 0.11	23 to 42
	462.48							
SGWC-13/PZ-35I	478.48	7.82	400	0.020	1.31 to 2.36	0.2	0.13 to 0.23	47 to 84
	470.66							

Notes:

1.  $\Delta H$  = Change in groundwater elevation
2.  $\Delta L$  = Distance along flow path
3.  $I = \Delta H / \Delta L$
4. Velocity =  $(I * K)/n_e$
5. Hydraulic conductivity range based on historic aquifer performance tests (revised 3/2017)
6. Effective porosity based on default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996)

**TABLE 4B**  
**HORIZONTAL GROUNDWATER VELOCITY CALCULATIONS - May 2020**  
**Georgia Power - Plant Scherer Ash Pond**  
**Juliette, GA**

Flow Paths	Groundwater Elevation (feet msl)	$\Delta H$ (feet) <sup>2</sup>	$\Delta L$ (feet) <sup>3</sup>	Hydraulic Gradient ( $\Delta h/\Delta l$ )	Average Hydraulic Conductivity, K (feet per day) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ )	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>AP-1 May 2020</b>								
SGWC-14/PZ-29S	466.29	3.35	400	0.008	1.31 to 2.36	0.2	0.05 to 0.10	20 to 36
	462.94							
SGWC-13/PZ-35I	478.18	6.60	400	0.017	1.31 to 2.36	0.2	0.11 to 0.19	39 to 71
	471.58							

Notes:

1.  $\Delta H$  = Change in groundwater elevation
2.  $\Delta L$  = Distance along flow path
3.  $I = \Delta H / \Delta L$
4. Velocity =  $(I * K)/n_e$
5. Hydraulic conductivity range based on historic aquifer performance tests (revised 3/2017)
6. Effective porosity based on default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996)

**TABLE 4C**  
**HORIZONTAL GROUNDWATER VELOCITY CALCULATIONS - September 2020**  
**Georgia Power - Plant Scherer Ash Pond**  
**Juliette, GA**

Flow Paths	Groundwater Elevation (feet msl)	$\Delta H$ (feet) <sup>2</sup>	$\Delta L$ (feet) <sup>3</sup>	Hydraulic Gradient ( $\Delta H/\Delta L$ )	Average Hydraulic Conductivity, K (feet per day) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ )	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>AP-1 September 2020</b>								
SGWC-14/PZ-29S	465.89	5.08	400	0.013	1.31 to 2.36	0.2	0.08 to 0.15	30 to 55
	460.81							
SGWC-13/PZ-35I	477.82	7.99	400	0.020	1.31 to 2.36	0.2	0.13 to 0.24	48 to 86
	469.83							

Notes:

1.  $\Delta H$  = Change in groundwater elevation
2.  $\Delta L$  = Distance along flow path
3.  $I = \Delta H / \Delta L$
4. Velocity =  $(I * K)/n_e$
5. Hydraulic conductivity range based on historic aquifer performance tests (revised 3/2017)
6. Effective porosity based on default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996)

**TABLE 5A**  
**ANALYTICAL DATA SUMMARY ASH POND 1 - (February 2020)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	GROUNDWATER MONITORING WELLS											
		SGWA-1	SGWA-2	SGWA-3	SGWA-4	SGWA-5	SGWA-24	SGWA-25	SGWC-6	SGWC-7	SGWC-8	SGWC-9	SGWC-10
		2/13/2020	2/13/2020	2/18/2020	2/18/2020	2/17/2020	2/13/2020	2/17/2020	2/18/2020	2/18/2020	2/18/2020	2/19/2020	2/19/2020
<b>Appendix III</b>													
BORON, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
CALCIUM, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
FLUORIDE, TOTAL	mg/L	<0.026	0.051 J	<0.026	0.068 J	<0.026	0.066 J	0.041 J	0.11	0.2	0.38	0.061 J	<0.026
pH	S.U.	5.09	6.59	5.76	6.38	5.73	6.24	6.1	6.32	6.35	6.39	6.03	5.07
SULFATE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
<b>Appendix IV</b>													
ANTIMONY, TOTAL	mg/L	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
ARSENIC, TOTAL	mg/L	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	0.00039 J	<0.00031
BARIUM, TOTAL	mg/L	0.042	0.043	0.04	0.069	0.01	0.025	0.026	0.083	0.25	0.17	0.065	0.027
BERYLLIUM, TOTAL	mg/L	0.00031 J	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00026 J
CADMIUM, TOTAL	mg/L	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
CHROMIUM, TOTAL	mg/L	<0.0015	0.011	0.02	0.0062	<0.0015	0.0036	<0.0015	<0.0015	<0.0015	0.0015 J	<0.0015	<0.0015
COBALT, TOTAL	mg/L	0.0014	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	0.0044	<0.00013	0.0067	<0.00013	0.0082	0.027
FLUORIDE, TOTAL	mg/L	<0.026	0.051 J	<0.026	0.068 J	<0.026	0.066 J	0.041 J	0.11	0.2	0.38	0.061 J	<0.026
LEAD, TOTAL	mg/L	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	0.00014 J
LITHIUM, TOTAL	mg/L	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	0.0052	<0.0034	<0.0034	<0.0034
MERCURY, TOTAL	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MOLYBDENUM, TOTAL	mg/L	<0.00061	<0.00061	<0.00061	0.00075 J	<0.00061	<0.00061	<0.00061	<0.00061	0.0014 J	<0.00061	0.00063 J	<0.00061
RADIUM (226 + 228)	pCi/L	0.152 U	0.205 U	0.313 U	0.199 U	-0.0291 U	0.287 U	-0.0319 U	-0.0675 U	0.326 U	2.06	0.0604 U	0.0222 U
SELENIUM, TOTAL	mg/L	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
THALLIUM, TOTAL	mg/L	<0.00015	<0.00015	0.00033 J	0.00049 J	<0.00015	<0.00015	<0.00015	0.00028 J	0.00022 J	0.00020 J	0.00027 J	0.00075 J

**NOTES:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is 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.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



**TABLE 5A**  
**ANALYTICAL DATA SUMMARY ASH POND 1 - (February 2020)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	GROUNDWATER MONITORING WELLS												
		SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
		2/18/2020	2/19/2020	2/19/2020	2/19/2020	2/19/2020	2/19/2020	2/19/2020	2/18/2020	2/19/2020	2/18/2020	2/18/2020	2/18/2020	2/18/2020
<b>Appendix III</b>														
BORON, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
CALCIUM, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
FLUORIDE, TOTAL	mg/L	<0.026	0.064 J	0.027 J	0.026 J	0.13	<0.026	0.046 J	<0.026	<0.026	0.16	0.073 J	<0.026	0.082 J
pH	S.U.	5.09	6.07	5.94	5.75	4.58	5.16	6.16	4.64	5.53	4.3	6.06	5.59	5.95
SULFATE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
ARSENIC, TOTAL	mg/L	<0.00031	0.00032 J	<0.00031	<0.00031	0.001	<0.00031	<0.00031	0.0031	<0.00031	0.00032 J	<0.00031	0.00034 J	<0.00031
BARIUM, TOTAL	mg/L	0.044	0.053	0.033	0.047	0.031	0.029	0.022	0.023	0.034	0.023	0.11	0.085	0.065
BERYLLIUM, TOTAL	mg/L	<0.00018	<0.00018	<0.00018	<0.00018	0.00045 J	<0.00018	<0.00018	0.00049 J	<0.00018	0.00052 J	<0.00018	<0.00018	<0.00018
CADMIUM, TOTAL	mg/L	<0.00022	<0.00022	<0.00022	<0.00022	0.00030 J	<0.00022	<0.00022	0.00032 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
CHROMIUM, TOTAL	mg/L	<0.0015	<0.0015	<0.0015	<0.0015	0.038	0.014	0.0045	0.011	0.017	<0.0015	<0.0015	0.0015 J	<0.0015
COBALT, TOTAL	mg/L	0.018	0.0027	0.0018	0.0099	0.28	0.0047	0.00034 J	0.14	0.00015 J	0.12	0.00014 J	0.0018	<0.00013
FLUORIDE, TOTAL	mg/L	<0.026	0.064 J	0.027 J	0.026 J	0.13	<0.026	0.046 J	<0.026	<0.026	0.16	0.073 J	<0.026	0.082 J
LEAD, TOTAL	mg/L	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	0.00025 J	<0.00013	0.00018 J	<0.00013
LITHIUM, TOTAL	mg/L	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	0.0045 J	<0.0034	0.0036 J	<0.0034	<0.0034	<0.0034
MERCURY, TOTAL	mg/L	<0.0001	<0.0001	<0.0001	0.0002	0.00016 J	<0.0001	<0.0001	0.00022	<0.0001	<0.0001	<0.0001	<0.0001	0.00011 J
MOLYBDENUM, TOTAL	mg/L	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
RADIUM (226 + 228)	pCi/L	0.203 U	0.166 U	0.218 U	0.00610 U	0.415 U	0.0321 U	0.217 U	0.220 U	0.308 U	0.474	0.287 U	0.0109 U	0.399
SELENIUM, TOTAL	mg/L	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0024 J	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
THALLIUM, TOTAL	mg/L	0.00016 J	0.00034 J	0.00022 J	0.00018 J	0.00031 J	<0.00015	<0.00015	0.00066 J	<0.00015	0.00033 J	<0.00015	<0.00015	<0.00015

- NOTES:
1. mg/L - Milligrams per Liter
  2. pCi/L - picocuries per Liter
  3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
  4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
  5. Radium data is 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.
  6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.

**TABLE 5B**  
**ANALYTICAL DATA SUMMARY ASH POND 1- (March 2020)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	GROUNDWATER MONITORING WELLS												
		SGWA-1	SGWA-2	SGWA-3	SGWA-4	SGWA-5	SGWA-24	SGWA-25	SGWC-6	SGWC-7	SGWC-8	SGWC-9	SGWC-10	SGWC-11
		3/18/2020	3/17/2020	3/17/2020	3/18/2020	3/17/2020	3/18/2020	3/17/2020	3/25/2020	3/26/2020	3/25/2020	3/25/2020	3/25/2020	3/25/2020
<b>Appendix III</b>														
BORON, TOTAL	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.055 J	0.089	1.6	0.12	0.45
CALCIUM, TOTAL	mg/L	1.8	11	5.3	18	1.7	14	8.8	11	21	48	55	2.9	2.0
CHLORIDE, TOTAL	mg/L	2.0	1.6	2.1	1.5	1.9	2.4	2.4	2.3	5.1	10	15	8.8	9.0
FLUORIDE, TOTAL	mg/L	<0.10	0.038 J	0.029 J	<0.10	0.030 J	0.078 J	0.041 J	0.13	0.14	0.31	0.079 J	0.031 J	0.058 J
pH	S.U.	5.37	6.83	5.87	6.36	5.63	6.40	6.02	6.31	6.52	6.35	6.01	5.26	5.16
SULFATE, TOTAL	mg/L	1.2	0.78 J	1.6	1.3	0.55 J	0.45 J	0.61 J	0.58 J	15	62	300	14	0.58 J
TOTAL DISSOLVED SOLIDS	mg/L	25	100	52	140	30	110	98	94	180	360	540	59	38
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
ARSENIC, TOTAL	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00044 J	<0.0010	0.00063 J	<0.0010	<0.0010	<0.0010
BARIUM, TOTAL	mg/L	0.046	0.039	0.037	0.071	0.010	0.023	0.025	0.12	0.23	0.19	0.066	0.036	0.046
BERYLLIUM, TOTAL	mg/L	0.00029 J	<0.0025	<0.0025	0.00018 J	<0.0025	<0.0025	<0.0025	0.00020 J	<0.0025	0.00030 J	<0.0025	<0.0025	<0.0025
CADMIUM, TOTAL	mg/L	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00022 J	<0.0025	0.00031 J	<0.0025	<0.0025	<0.0025
CHROMIUM, TOTAL	mg/L	0.0024	0.014	0.018	0.00032 J	<0.0020	0.0047	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
COBALT, TOTAL	mg/L	0.0021 J	<0.0025	<0.0025	<0.0025	<0.0025	0.00016 J	0.0039	0.00027 J	0.0033	0.00032 J	0.0064	0.029	0.024
FLUORIDE, TOTAL	mg/L	<0.10	0.038 J	0.029 J	<0.10	0.030 J	0.078 J	0.041 J	0.13	0.14	0.31	0.079 J	0.031 J	0.058 J
LEAD, TOTAL	mg/L	0.00022 J	<0.0010	<0.0010	0.00021 J	<0.0010	0.00022 J	<0.0010	0.00020 J	<0.0010	0.00029 J	<0.0010	<0.0010	<0.0010
LITHIUM, TOTAL	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0060	<0.0020	<0.0020	<0.0020	<0.0020
MERCURY, TOTAL	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
MOLYBDENUM, TOTAL	mg/L	<0.0150	<0.0150	<0.0150	0.00064 J	<0.0150	<0.0150	<0.0150	<0.0150	0.0010 J	<0.0150	<0.0150	<0.0150	<0.0150
RADIUM (226 + 228)	pCi/L	0.21 U	0.582 U	-0.0428 U	0.226 U	-0.196 U	0.536	0.436 U	0.411 U	0.151 U	2.99	0.206 U	0.253 U	0.204 U
SELENIUM, TOTAL	mg/L	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
THALLIUM, TOTAL	mg/L	0.00049 J	<0.00050	<0.00050	0.00021 J	<0.00050	<0.00050	<0.00050	0.00049 J	<0.00050	0.00079 J	<0.00050	<0.00050	<0.00050

**NOTES:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is 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.
6. -- Each of these Appendix IV constituents were not detected during the February 2020 monitoring event and therefore are not required to be analyzed.

**TABLE 5B**  
**ANALYTICAL DATA SUMMARY ASH POND 1- (March 2020)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	GROUNDWATER MONITORING WELLS											
		SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
		3/26/2020	3/27/2020	3/27/2020	3/27/2020	3/27/2020	3/24/2020	3/26/2020	3/23/2020	3/23/2020	3/23/2020	3/24/2020	3/24/2020
<b>Appendix III</b>													
BORON, TOTAL	mg/L	<0.050	0.49	1.5	1.4	0.59	0.37	6.0	1.7	1.9	0.83	0.34	0.55
CALCIUM, TOTAL	mg/L	22	18	41	17	1.5	58	81	46	13	36	31	22
CHLORIDE, TOTAL	mg/L	9.4	9.0	11	10	8.5	7.8	12	7.7	10	11	10	9.1
FLUORIDE, TOTAL	mg/L	0.081 J	0.045 J	0.041 J	0.13	0.027 J	0.058 J	0.091 J	0.057 J	0.25	0.11	<0.10	0.081 J
pH	S.U.	6.10	5.89	5.74	4.51	5.17	6.21	4.74	5.51	4.19	6.12	5.62	6.00
SULFATE, TOTAL	mg/L	44	81	180	190	35	190	1000	250	220	120	100	71
TOTAL DISSOLVED SOLIDS	mg/L	200	200	330	330	99	430	1600	390	330	330	250	210
<b>Appendix IV</b>													
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
ARSENIC, TOTAL	mg/L	0.00032 J	<0.0010	0.0014	0.0016	<0.0010	<0.0010	0.0047	<0.0010	0.00050 J	<0.0010	<0.0010	<0.0010
BARIUM, TOTAL	mg/L	0.051	0.034	0.049	0.028	0.027	0.024	0.020	0.032	0.024	0.10	0.081	0.065
BERYLLIUM, TOTAL	mg/L	<0.0025	<0.0025	0.00053 J	0.00059 J	<0.0025	<0.0025	0.00033 J	<0.0025	0.00077 J	<0.0025	<0.0025	<0.0025
CADMIUM, TOTAL	mg/L	<0.0025	<0.0025	0.00057 J	0.00042 J	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
CHROMIUM, TOTAL	mg/L	<0.0020	<0.0020	0.0019 J	0.034	0.011	0.0079	0.0096	0.015	<0.0020	<0.0020	<0.0020	<0.0020
COBALT, TOTAL	mg/L	0.0024 J	0.0020 J	0.0093	0.28	0.0047	0.00044 J	0.15	<0.0025	0.22	0.00016 J	0.0016 J	<0.0025
FLUORIDE, TOTAL	mg/L	0.081 J	0.045 J	0.041 J	0.13	0.027 J	0.058 J	0.091 J	0.057 J	0.25	0.11	<0.10	0.081 J
LEAD, TOTAL	mg/L	<0.0010	<0.0010	0.00066 J	0.00023 J	0.00013 J	<0.0010	<0.0010	<0.0010	0.00023 J	<0.0010	<0.0010	<0.0010
LITHIUM, TOTAL	mg/L	<0.0020	<0.0020	<0.0020	0.0038 J	<0.0020	<0.0020	0.0046 J	<0.0020	0.0045 J	<0.0020	<0.0020	<0.0020
MERCURY, TOTAL	mg/L	<0.00020	<0.00020	<0.00020	0.00011 J	<0.00020	<0.00020	0.00019 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
MOLYBDENUM, TOTAL	mg/L	<0.0150	<0.0150	0.00081 J	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
RADIUM (226 + 228)	pCi/L	0.604	0.235 U	0.206 U	0.39 U	0.305 U	0.426	0.366 U	0.171 U	0.258 U	0.384	0.188 U	0.183 U
SELENIUM, TOTAL	mg/L	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0019 J	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
THALLIUM, TOTAL	mg/L	<0.00050	<0.00050	0.0011	0.00045 J	<0.00050	<0.00050	0.00029 J	<0.00050	0.00016 J	<0.00050	<0.00050	<0.00050

**NOTES:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is 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.
6. -- Each of these Appendix IV constituents were not detected during the February 2020 monitoring event and therefore are not required to be analyzed.

**TABLE 5C**  
**ANALYTICAL DATA SUMMARY ASH POND-1 (September 2020)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	GROUNDWATER MONITORING WELLS												
		SGWA-1	SGWA-2	SGWA-3	SGWA-4	SGWA-5	SGWA-24	SGWA-25	SGWC-6	SGWC-7	SGWC-8	SGWC-9	SGWC-10	SGWC-11
		9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020	9/14/2020
<b>Appendix III</b>														
BORON, TOTAL	mg/L	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	0.10	1.7	0.082	0.43
CALCIUM, TOTAL	mg/L	1.6	11	5.7	17	1.6	14	9.1	10	20	49	45	0.75	1.8
CHLORIDE, TOTAL	mg/L	2.1	1.5	2.5	1.5	1.9	2.5	2.7	2.8	5.8	14	19	10	8.9
FLUORIDE, TOTAL	mg/L	< 0.026	0.033 J	< 0.026	0.035 J	< 0.026	0.038 J	0.028 J	0.076 J	0.11	0.29	0.037 J	< 0.026	< 0.026
pH	S.U.	5.11	6.73	5.84	6.40	5.82	6.52	5.98	6.29	6.31	6.56	6.33	5.51	5.14
SULFATE, TOTAL	mg/L	0.58 J	< 0.38	0.82 J	0.96 J	< 0.38	< 0.38	< 0.38	0.46 J	17	81	220	2.2	0.59 J
TOTAL DISSOLVED SOLIDS	mg/L	20	93	55	110	36	95	71	99	200	360	470	45	39
<b>Appendix IV</b>														
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
ARSENIC, TOTAL	mg/L	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031	< 0.00031
BARIIUM, TOTAL	mg/L	0.043	0.038	0.039	0.068	0.011	0.024	0.026	0.14	0.27	0.18	0.059	0.027	0.042
BERYLLIUM, TOTAL	mg/L	0.00051 J	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
CADMIUM, TOTAL	mg/L	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
CHROMIUM, TOTAL	mg/L	< 0.0015	0.014	0.018	0.0054	< 0.0015	0.0050	0.0021	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
COBALT, TOTAL	mg/L	0.0013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00031 J	0.0020 J	< 0.00013	0.0063	< 0.00013	0.00048 J	0.022	0.019
FLUORIDE, TOTAL	mg/L	< 0.026	0.033 J	< 0.026	0.035 J	< 0.026	0.038 J	0.028 J	0.076 J	0.11	0.29	0.037 J	< 0.026	< 0.026
LEAD, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00014 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
LITHIUM, TOTAL	mg/L	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034	0.0051	< 0.0034	< 0.0034	< 0.0034	< 0.0034
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	0.0012 J	< 0.00061	< 0.00061	< 0.00061	< 0.00061
RADIUM (226 + 228)	pCi/L	-0.130 U	0.107 U	0.161 U	0.0399 U	-0.949 U	0.637 U	-0.197 U	0.334 U	0.123 U	2.16	0.502 U	0.125 U	-0.0264 U
SELENIUM, TOTAL	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
THALLIUM, TOTAL	mg/L	0.00039 J	0.00016 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015

NOTES:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is 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.
6. -- Each of these Appendix IV constituents were not detected during the February 2020 monitoring event and therefore are not required to be analyzed.

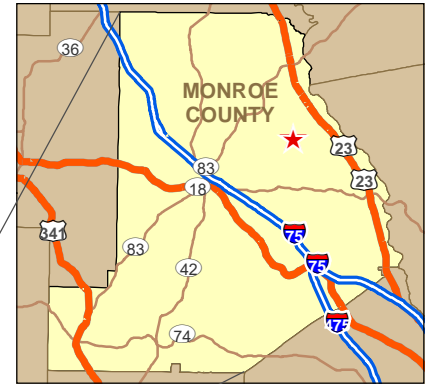
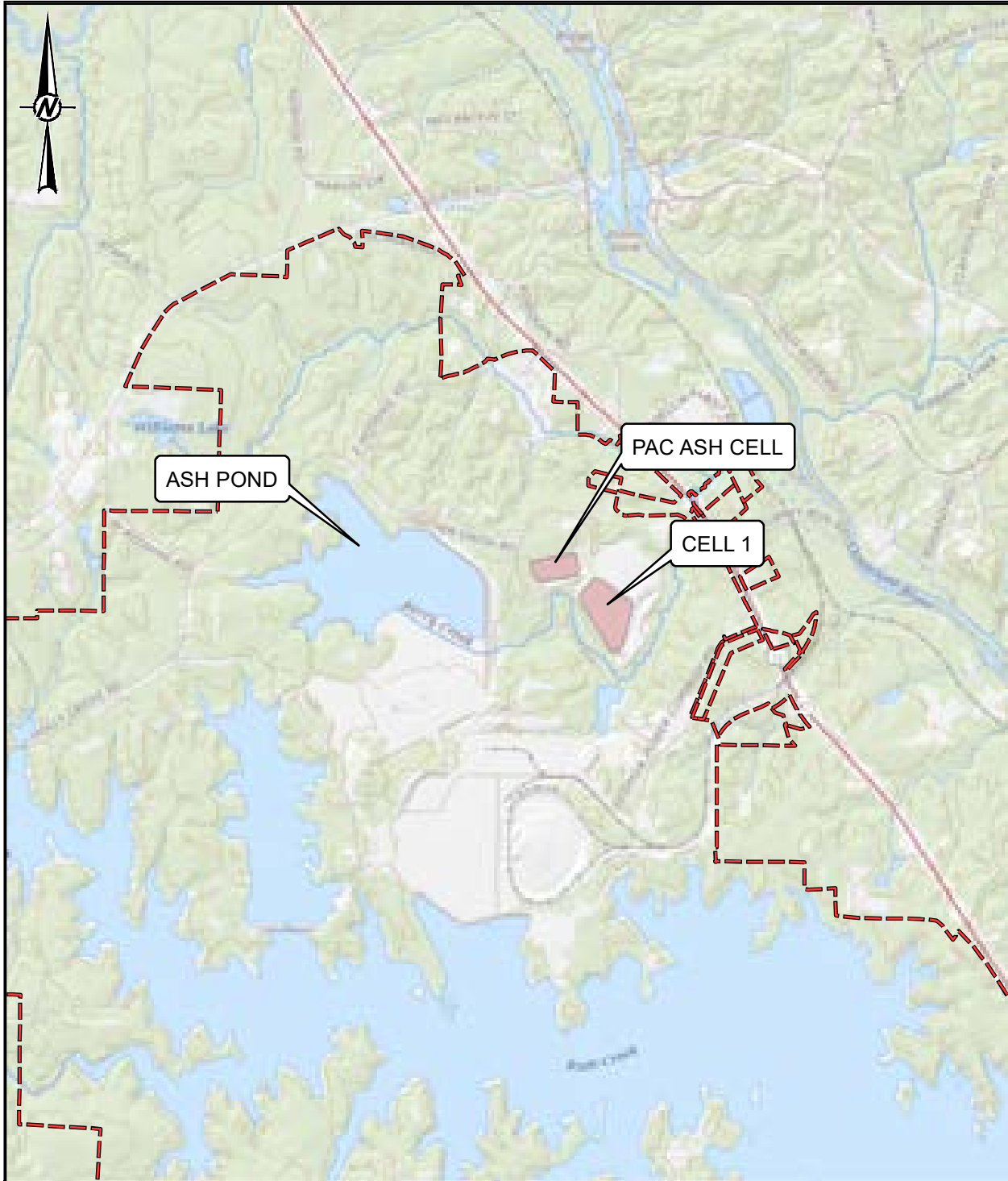
**TABLE 5C**  
**ANALYTICAL DATA SUMMARY ASH POND-1 (September 2020)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



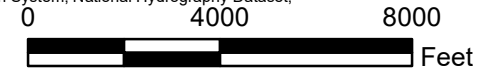
Analyte	Units	GROUNDWATER MONITORING WELLS											
		SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
		9/14/2020	9/14/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020	9/15/2020
<b>Appendix III</b>													
BORON, TOTAL	mg/L	< 0.039	0.49	1.5	1.4	0.57	0.38	6.2	1.9	1.8	1.2	0.50	0.38
CALCIUM, TOTAL	mg/L	22	19	40	17	1.1	54	74	47	14	38	28	21
CHLORIDE, TOTAL	mg/L	10	11	11	10	8.6	8.4	11	7.7	11	12	11	10
FLUORIDE, TOTAL	mg/L	0.042 J	< 0.026	0.040 J	0.15	0.037 J	0.052 J	< 0.026	< 0.026	0.15	0.061 J	< 0.026	0.052 J
pH	S.U.	6.11	6	6.01	4.87	5.56	6.42	4.94	5.51	4.30	6.10	5.65	5.89
SULFATE, TOTAL	mg/L	41	89	180	190	36	190	860	250	200	130	110	72
TOTAL DISSOLVED SOLIDS	mg/L	190	190	360	340	90	440	1500	450	350	390	250	210
<b>Appendix IV</b>													
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--
ARSENIC, TOTAL	mg/L	< 0.00031	< 0.00031	< 0.00031	0.0014	< 0.00031	< 0.00031	0.0045	< 0.00031	0.00051 J	< 0.00031	< 0.00031	< 0.00031
BARIUM, TOTAL	mg/L	0.057	0.039	0.050	0.031	0.031	0.025	0.020	0.034	0.024	0.13	0.083	0.064
BERYLLIUM, TOTAL	mg/L	< 0.00018	< 0.00018	0.00020 J	0.00053 J	< 0.00018	< 0.00018	0.00030 J	0.00018 J	0.00078 J	< 0.00018	0.00033 J	< 0.00018
CADMIUM, TOTAL	mg/L	< 0.00022	< 0.00022	< 0.00022	0.00032 J	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022	< 0.00022
CHROMIUM, TOTAL	mg/L	< 0.0015	< 0.0015	< 0.0015	0.034	0.012	0.0091	0.010	0.015	< 0.0015	0.0020	0.0025	0.0017 J
COBALT, TOTAL	mg/L	0.0010 J	0.0022 J	0.0076	0.25	0.0043	0.00041 J	0.12	0.00016 J	0.098	0.00022 J	0.0014 J	< 0.00013
FLUORIDE, TOTAL	mg/L	0.042 J	< 0.026	0.040 J	0.15	0.037 J	0.052 J	< 0.026	< 0.026	0.15	0.061 J	< 0.026	0.052 J
LEAD, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00017 J	0.00022 J	0.00019 J	< 0.00013
LITHIUM, TOTAL	mg/L	< 0.0034	< 0.0034	< 0.0034	0.0037 J	< 0.0034	< 0.0034	0.0049 J	< 0.0034	0.0037 J	< 0.0034	< 0.0034	< 0.0034
MERCURY, TOTAL	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
MOLYBDENUM, TOTAL	mg/L	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061	< 0.00061
RADIUM (226 + 228)	pCi/L	0.575	0.613	0.131 U	0.546	-0.0426 U	0.661	1.74	1.55	0.831	1.60	1.82	1.03
SELENIUM, TOTAL	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	0.0030 J	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
THALLIUM, TOTAL	mg/L	0.00023 J	< 0.00015	0.00035 J	0.00027 J	< 0.00015	< 0.00015	0.00027 J	< 0.00015	0.00028 J	< 0.00015	0.00038 J	0.00016 J

**NOTES:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is 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.
6. -- Each of these Appendix IV constituents were not detected during the February 2020 monitoring event and therefore are not required to be analyzed.



Service Layer Credits: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset,



CLIENT



PROJECT  
2020 ANNUAL GROUNDWATER MONITORING REPORT  
PLANT SCHERER

TITLE  
**SITE LOCATION MAP**

CONSULTANT



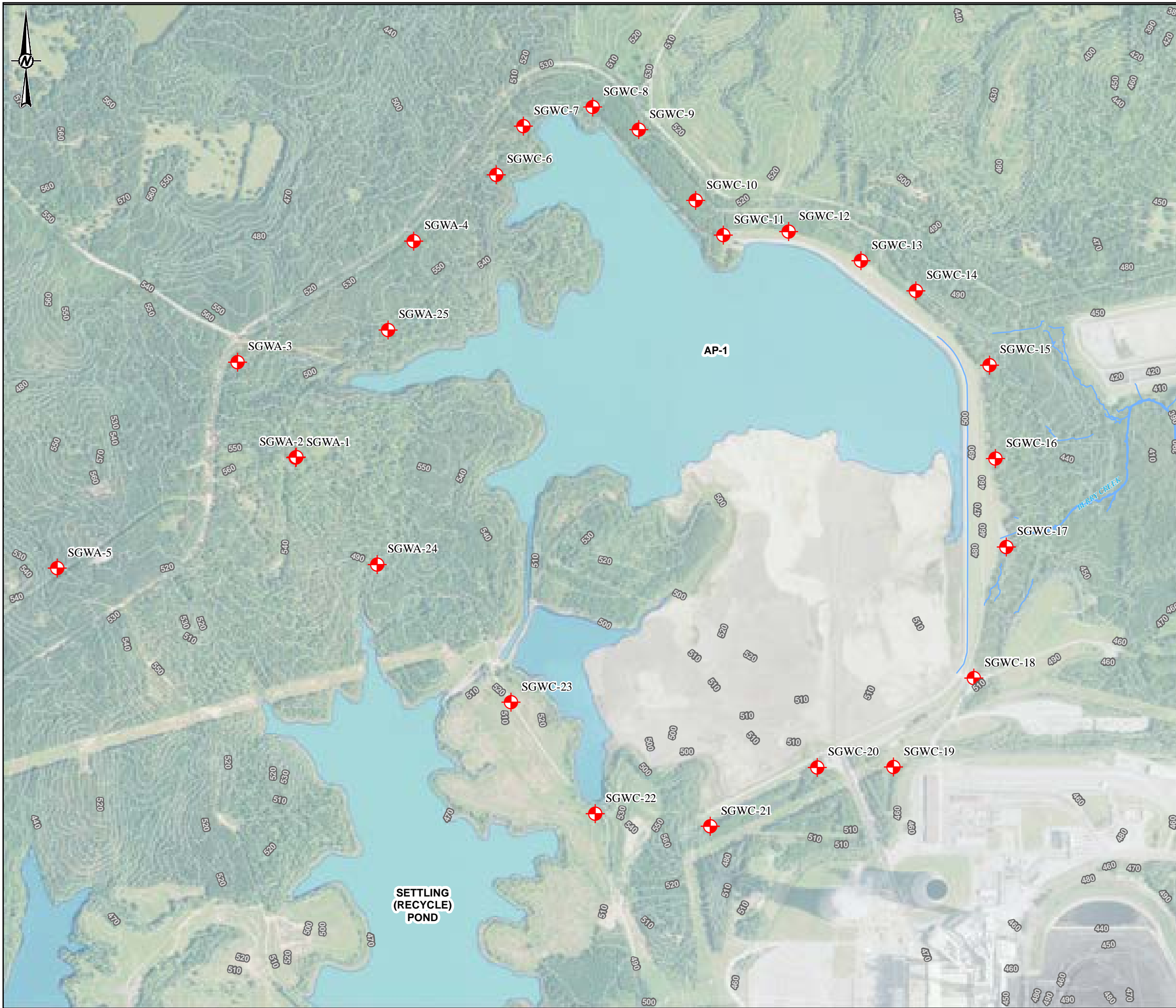
YYYY-MM-DD	2020-01-10
PREPARED	DJC
DESIGN	DLP
REVIEW	DLP
APPROVED	RPK

PROJECT No.  
1662350

CONTROL  
1662350\000-GIS.mxd

Rev.  
0

FIGURE  
1

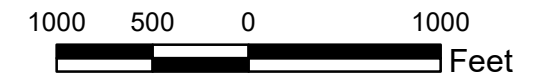


**LEGEND**

MONITORING WELL LOCATION

ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
2. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.



CLIENT  
GEORGIA POWER COMPANY



PROJECT  
2020 ANNUAL GROUNDWATER MONITORING REPORT  
PLANT SCHERER

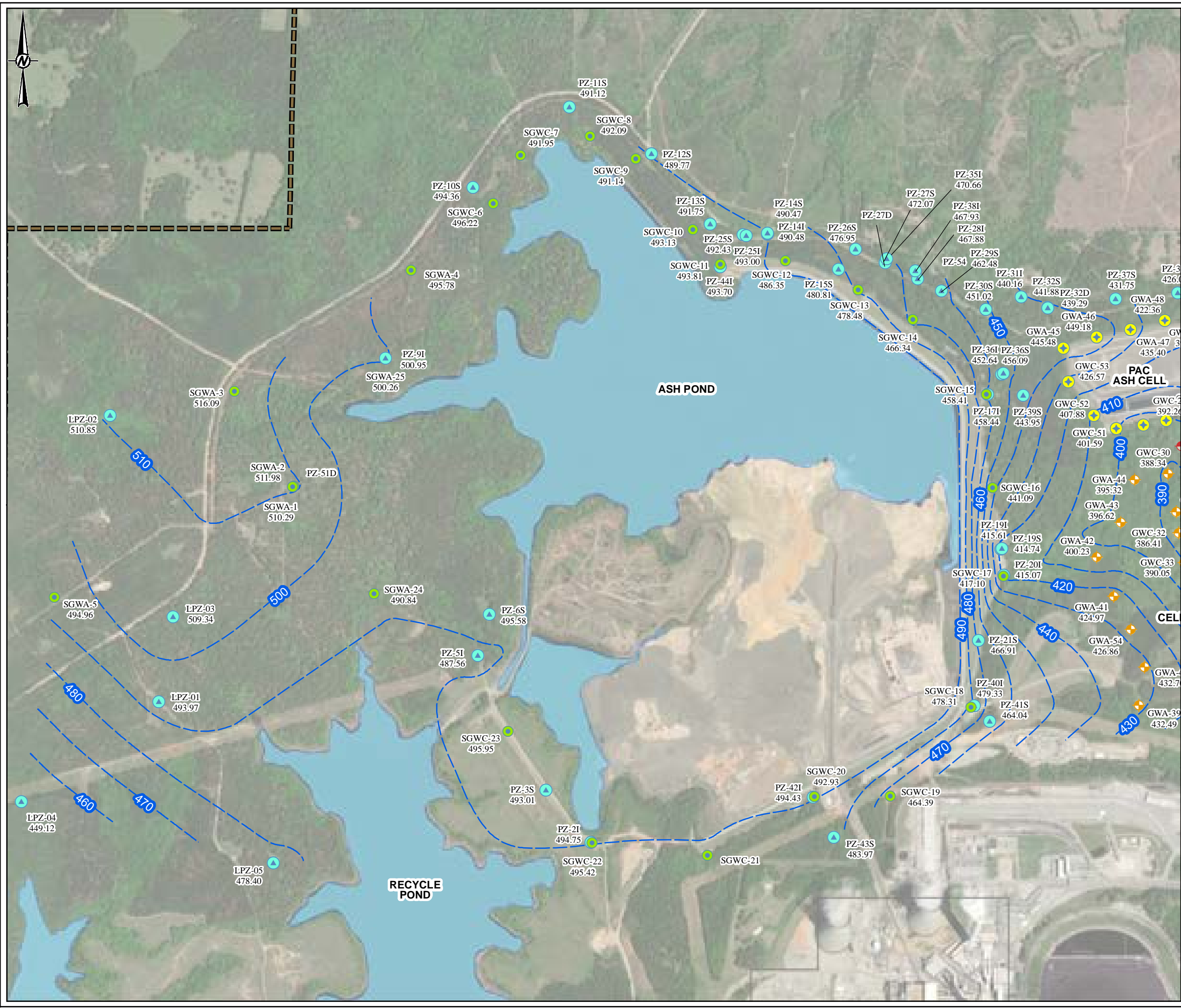
TITLE  
**SITE PLAN AND MONITORING WELL  
LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2018-10-24
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

PROJECT No. 1662350 CONTROL 1662350L003-GIS.mxd Rev. 0 FIGURE 2

Path: H:\1662350-Projects\1662350-Southern Company Services\gumetk SITE PLAN AND MONITORING WELL LOCATION MAP\1662350L003-GIS.mxd

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

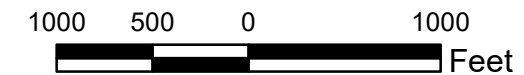


**LEGEND**

- SCHERER ASH POND-CCR MONITORING WELL
- ◆ CELL 1 LANDFILL MONITORING WELL
- PAC ASH LANDFILL MONITORING WELL
- ▲ ASH POND PIEZOMETER
- ◆ CELL 3 MONITORING WELL
- ⊕ SURFACE WATER SAMPLE
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
- PROPERTY BOUNDARY
- PONDS

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED MARCH 17, 2020 BY GOLDER ASSOCIATES.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
  4. DEEP AND INTERMEDIATE WELL GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

- REFERENCE**
1. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
  2. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT SCHERER

PROJECT  
**2020 ANNUAL GROUNDWATER MONITORING REPORT**  
 PLANT SCHERER

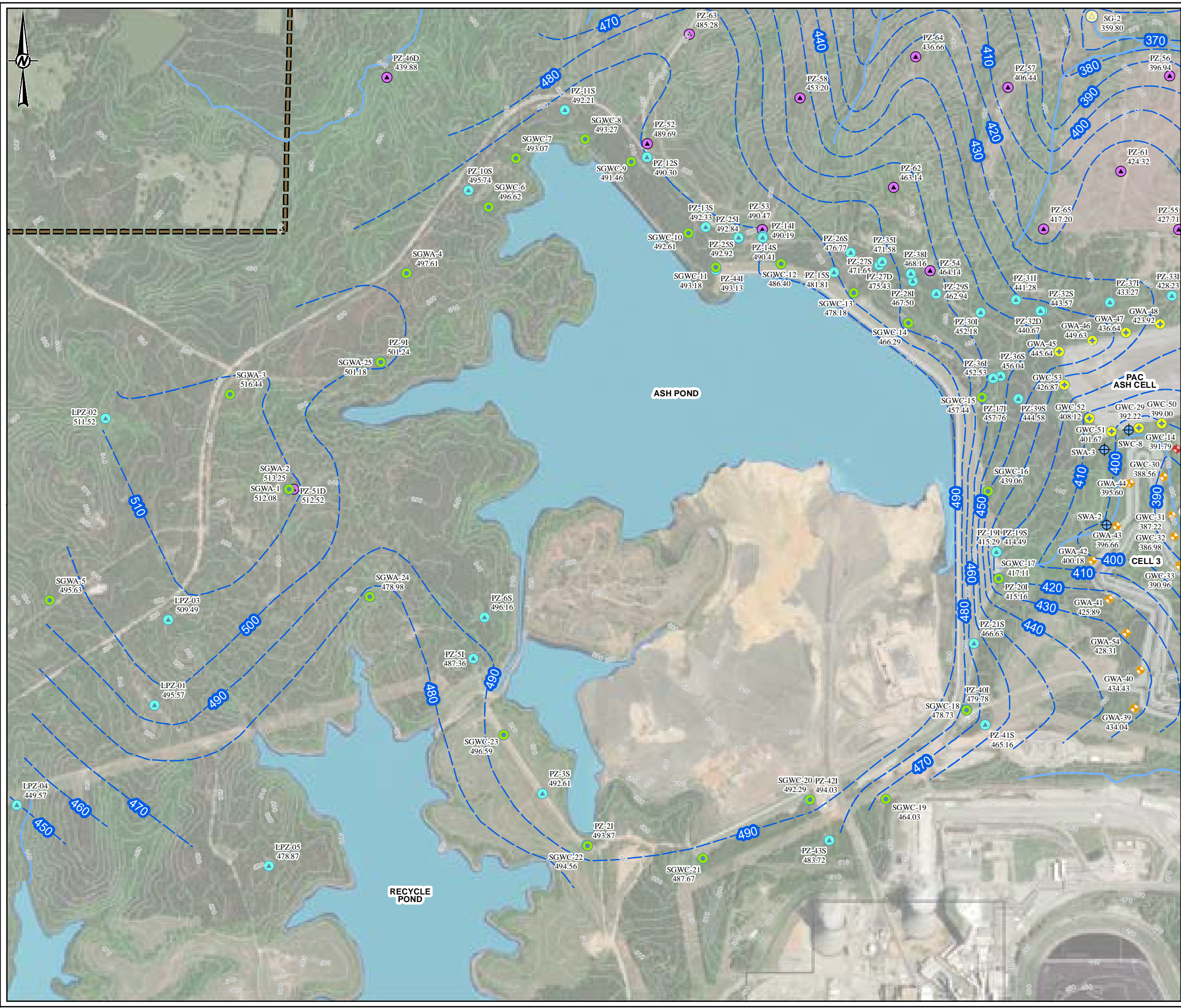
TITLE  
**POTENTIOMETRIC SURFACE MAP - ASH POND 1**  
**MARCH 17, 2020**

CONSULTANT	YYYY-MM-DD	2020-08-20
<b>GOLDER</b>	PREPARED	DJC
	DESIGN	DH
	REVIEW	
	APPROVED	

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**LEGEND**

- NORTH PROPERTY PIEZOMETER
- SCHERER ASH POND-CCR MONITORING WELL
- CELL 1 LANDFILL MONITORING WELL
- PAC ASH LANDFILL MONITORING WELL
- CELL 3 MONITORING WELL
- PIEZOMETER
- SURFACE WATER SAMPLING LOCATION
- STREAM GAUGE LOCATION
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
- PROPERTY BOUNDARY
- PONDS

**NOTES**

- GROUNDWATER ELEVATION MEASUREMENTS OBTAINED MAY 6, 2020 BY GOLDER ASSOCIATES.
- GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
- DEEP AND INTERMEDIATE WELL GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

**REFERENCE**

- COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
- MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY JORDAN ENGINEERING.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT SCHERER



PROJECT  
 GROUNDWATER MONITORING PROGRAM  
 SEMI-ANNUAL COMPLIANCE EVENT

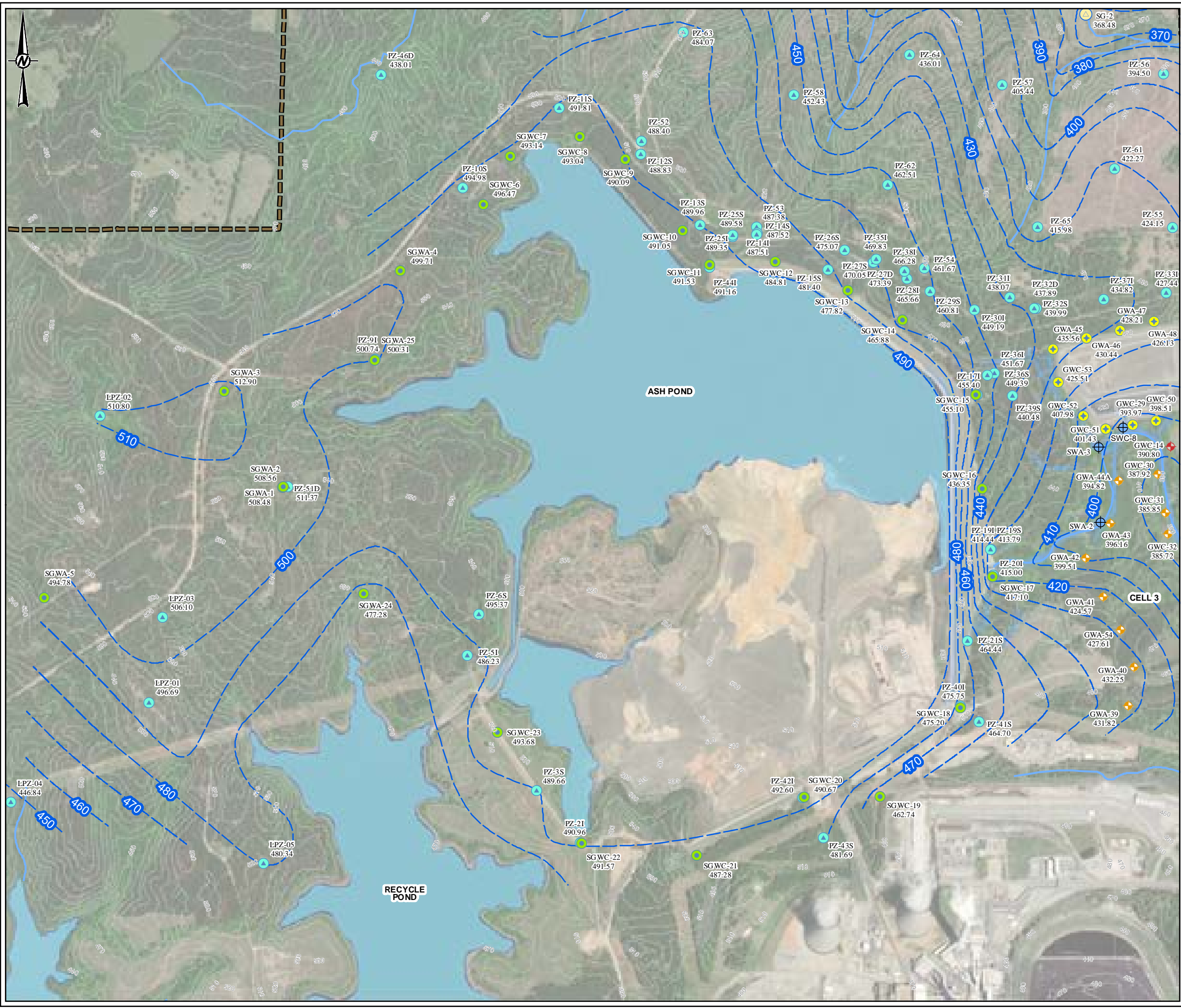
TITLE  
**POTENTIOMETRIC SURFACE MAP - ASH POND 1**  
 MAY 6, 2020

CONSULTANT	DATE	REVISION
	YYYY-MM-DD	2020-05-19
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

PROJECT No. 201394884 CONTROL 201394884D010-GIS.mxd Rev. 0 FIGURE 3B

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**LEGEND**

- SCHERER ASH POND-CCR MONITORING WELL
- ◆ CELL 1 LANDFILL MONITORING WELL
- ◆ PAC ASH LANDFILL MONITORING WELL
- ◆ CELL 3 MONITORING WELL
- PIEZOMETER
- ⊕ SURFACE WATER SAMPLING LOCATION
- STREAM GAUGE LOCATION
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
- PROPERTY BOUNDARY
- PONDS

**NOTES**

- GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 8, 2020 BY GOLDER ASSOCIATES.
- GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
- DEEP AND INTERMEDIATE WELL GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

**REFERENCE**

- COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
- MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY JORDAN ENGINEERING.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT SCHERER



PROJECT  
**GROUNDWATER MONITORING PROGRAM**  
 SEMI-ANNUAL COMPLIANCE EVENT

TITLE  
**POTENTIOMETRIC SURFACE MAP**  
 SEPTEMBER 8, 2020

CONSULTANT	YYYY-MM-DD	2020-05-19
<b>GOLDER</b>	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

PROJECT No. 201394884 CONTROL 201394884G001-GIS.mxd Rev. 0 FIGURE **3C**

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**APPENDIX A**

# PIEZOMETER INSTALLATION REPORT

August 18, 2020

Project No. 20139484

**Mr. Joju Abraham, PG**

Southern Company Services  
241 Ralph McGill Blvd NE  
Atlanta, GA 30308  
jabraham@southernco.com

**PIEZOMETER INSTALLATION REPORT – (PZ-45 THROUGH PZ-68)  
GEORGIA POWER COMPANY – PLANT SCHERER, JULIETTE, GEORGIA**

Dear Mr. Abraham,

Golder Associates Inc. (Golder) is submitting this *Piezometer Installation Report- PZ-45 Through PZ-68* to Southern Company Services, Inc. (SCS) and Georgia Power Company (GPC), which documents the construction of piezometers associated with supplemental site characterization at Plant Scherer in Juliette, Georgia. Piezometer construction activities were performed in general accordance with the standards described in the 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 Rachel Kirkman, a Georgia Registered Professional Geologist (PG).

The field activities for this investigation were performed from March 2020 through July 2020. The field work consisted of the installation and development of twenty-nine piezometers: nineteen (19) shallow piezometers, eight (8) deep/bedrock piezometers, and two (2) piezometers cased into open boreholes. Jordan Engineering, Inc. conducted a survey of the recently installed piezometers. A summary of the activities is presented below. Figure 1 and 1A, Site Plan, presents the location of each of the newly installed piezometers.

**Piezometer Drilling and Construction Activities**

Piezometers PZ-45D, PZ-46D, PZ-47D, PZ-48S, PZ-49S, PZ-49D, PZ-50D, PZ-51D, PZ-52, PZ-53, PZ-54, PZ-55, PZ-56, PZ-57, PZ-58, PZ-59S, PZ-59D, PZ-60S, PZ-60D, PZ-61, PZ-62, PZ-63, PZ-64, PZ-65, PZ-66, PZ-66D, PZ-67, PZ-67D, and PZ-68 were drilled and installed by Cascade Drilling, LP, who was contracted through SCS, at the facility from March 2020 through May 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 well installation. A copy of the Cascade Drilling Bond is included in Appendix A and the driller's name is provided on the boring/construction diagrams presented in Appendix B.

Experienced Golder geologists were present on site to oversee and record the drilling and piezometer construction under the supervision of a professional geologist registered to practice in Georgia (Rachel Kirkman). Drilling methods employed for borehole advancement were rotasonic drilling techniques with continuous core collected. The drilling equipment consisted of full-sized Terrasonic 150C truck-mounted drill rig or TSI Compact

Crawler track-mounted drill rig. The drill rigs were equipped with 4-inch sonic rods with 6-inch outer-casing sleeve used to retrieve samples for logging. During the drilling, continuous core samples were logged in the field for lithologic and geotechnical properties.

Prior to use, and between boreholes, downhole equipment was decontaminated by power washing. The boring (lithologic) 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.

With the exception of PZ-66D and PZ-67D, the piezometers were constructed within the borehole using factory-cleaned and sealed Schedule 40 poly-vinyl chloride (PVC) products with flush-threaded fittings. Specifically, piezometers were constructed with 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 0.35-foot sump/sediment trap, and the top of each piezometer extends approximately 30 to 39 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 extended approximately 2 feet above the screen. Immediately following placement of the filter pack, each piezometer was pumped using a portable submersible pump for approximately 30 minutes or until visibly clear water was discharged. If settling occurred during pumping, additional sand was placed so that the filter sand thickness was approximately 2 feet above the screen. A filter pack seal, composed of 2 to 5 feet of hydrated time-release 3/8-inch non-coated bentonite pellets, was then placed on top of the filter pack by slowly pouring the material down the borehole. The bentonite was hydrated using potable water and allowed to cure for two hours prior to grouting the piezometer. Following hydration of the bentonite, the remaining annular space was grouted with a cement-bentonite grout mixture to approximately 3 feet below ground surface using tremie pipe methods.

The open borehole piezometers (PZ-66D and PZ-67D) were drilled approximately 25 feet into bedrock using 8-inch diameter sonic rods and a 10-inch outer-casing sleeve was used to drill a 10-inch diameter borehole. Permanent casings consisting of 6-1/4" outer diameter (6-1/8" inner diameter) SDR-21 PVC were installed approximately 25 feet into bedrock and grouted in place to the surface using tremie pipe methods. The 4-inch sonic rods with 6-inch outer-casing sleeve were then used to drill 6-inch diameter open boreholes to target depths.

Piezometer surface completion consists of a PVC stickup with a locked, aluminum protective casing and a 4-foot by 4-foot by 4-inch concrete pad. Bollards were placed around each well pad.

### **Piezometer Development Activities**

The newly installed shallow and deep/bedrock piezometers were developed in March through May 2020 in accordance with the *Monitoring Well Development Procedures* prepared by Southern Company Services, Inc. (March 2016). The piezometer screen intervals were surged and then pumped using a Reclaimer pump system; due to heavy sediment loads, a Watera pump was also utilized for PZ-45D. 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; final measurements were completed utilizing a SmarTroll® multimeter. Development forms are included in Appendix B with development details summarized in Table 2. Note that just over one well volume was removed from each of PZ-66D and PZ-67D by the drillers utilizing a Grundfos pump; neither piezometer was developed due to the type of construction and no development logs are included.

During development, attempts were made for each piezometer to achieve a turbidity value below 10 nephelometric turbidity units (NTUs). The measurements were collected using a decontaminated electronic water level indicator. The top of the casing was used as reference, and the measurements were recorded to within 0.01 foot.

### **Piezometer Survey**

The newly installed piezometers were surveyed in May through July 2020 by Jordan Engineering, Inc., with the exception of PZ-50D, which was completed by SCS. The survey was completed using a JAVAD Triumph-LS Dual Frequency RTK (survey-grade) global positioning system receiver referencing the Georgia State Plane West Zone, with a positional tolerance of 0.04 horizontal and 0.01 vertical feet. Vertical data were confirmed to be accurate within 0.01 foot through establishment of a closed level check loop with a digital level having a published accuracy of 0.7mm per dual-traverse kilometer. SCS's Engineering and Civil Field Services group (FL Bullard and Steve Culberson) surveyed PZ-50D in May 2020 due to its distance from the main plant property. The survey of PZ-50D was completed using a LEICA GS14 Antenna and CS15 Sensor with a positional tolerance of 0.5 horizontal and 0.01 vertical feet. The surveys were completed using horizontal datum NAD 83 Georgia State Plane West Zone, and vertical datum NAVD 1988.

The final survey locations and elevations are presented on Table 1 and the boring/construction diagrams. The well surveys are attached as Appendix C. A site map showing the locations of the newly installed piezometers is presented on Figures 1 and 1A.

### **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 (336) 852-4903.

Sincerely,

**Golder Associates Inc.**



Dawn L. Prell  
*Hydrogeologist, Senior Consultant*

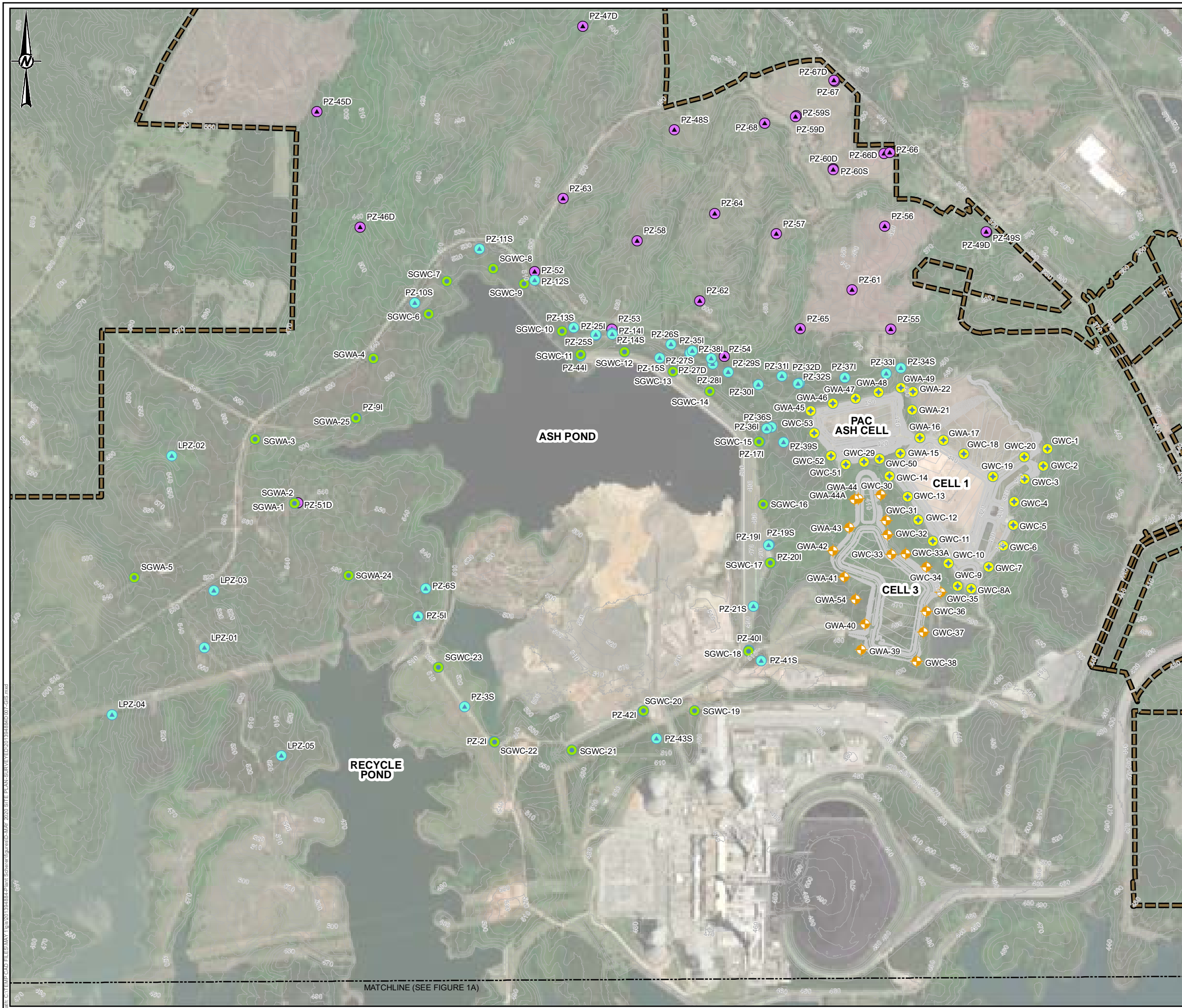
Rachel P. Kirkman, PG  
*Principal and Senior Consultant*

ssg/dlp/rpk

CC: Georgia Power Company - Plant Scherer  
Ben Hodges, Geologist, Georgia Power Company

Attachments: Figure 1 – Site Plan  
Figure 1A – Site Plan  
Table 1 – Summary of Piezometer Construction Details  
Table 2 – Summary of Piezometer Development Data  
Appendix A – Cascade Drilling Bond  
Appendix B – Boring Logs/Construction Diagrams and Development Forms  
Appendix C – Certified Well Surveys

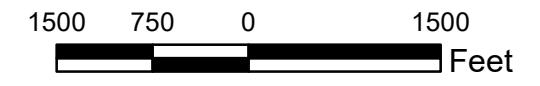
[https://golderassociates.sharepoint.com/sites/24912g/project files/200 reports/20139484 deep well installation-cr6 investigation/20139484\\_well installation report/final\\_20200811/20139484\\_installation\\_report\\_20200818\\_final.docx](https://golderassociates.sharepoint.com/sites/24912g/project%20files/200%20reports/20139484%20deep%20well%20installation-cr6%20investigation/20139484_well%20installation%20report/final_20200811/20139484_installation_report_20200818_final.docx)



**LEGEND**

- NEWLY INSTALLED PIEZOMETER
- SCHERER ASH POND-CCR MONITORING WELL
- CELL 1 LANDFILL MONITORING WELL
- PAC ASH LANDFILL MONITORING WELL
- CELL 3 MONITORING WELL
- PIEZOMETER
- PROPERTY BOUNDARY
- PONDS

**REFERENCE**  
 MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY JORDAN ENGINEERING EXCEPT FOR GWA-33 AND GWC-44 WHICH WERE PROVIDED BY SOUTHERN COMPANY SERVICES; COORDINATES ARE IN GEORGIA STATE PLANE, WEST ZONE, NAD83(2011) IN U.S. SURVEY FEET.



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 GEORGIA POWER COMPANY  
 PLANT SCHERER



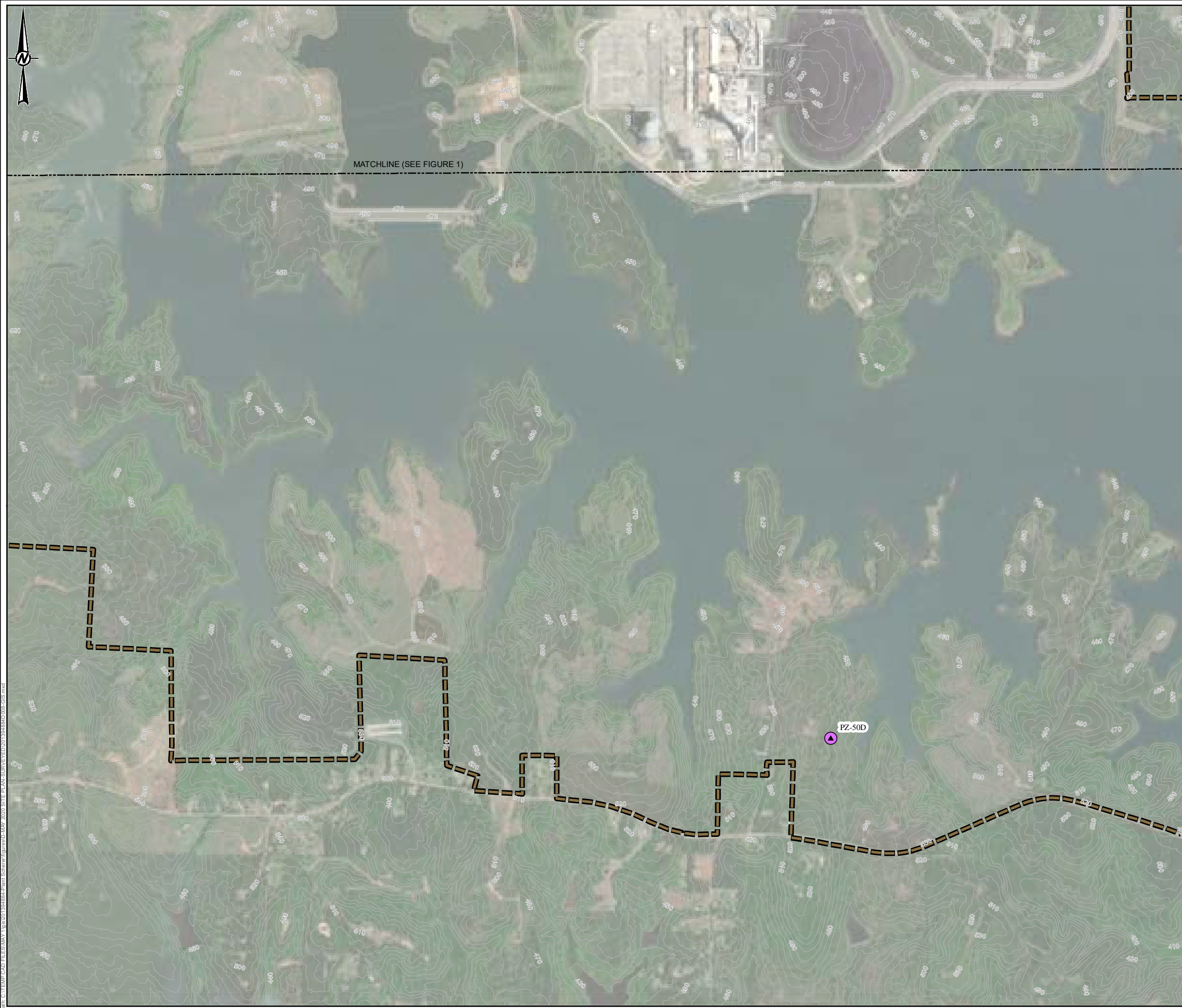
PROJECT  
 GROUNDWATER MONITORING PROGRAM  
 SEMI-ANNUAL COMPLIANCE EVENT

TITLE  
**SITE PLAN**

CONSULTANT	YYYY-MM-DD	2020-06-29
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

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





- LEGEND**
- NEWLY INSTALLED PIEZOMETER
  - SCHERER ASH POND-CCR MONITORING WELL
  - CELL 1 LANDFILL MONITORING WELL
  - PAC ASH LANDFILL MONITORING WELL
  - CELL 3 MONITORING WELL
  - PIEZOMETER
  - PROPERTY BOUNDARY
  - PONDS

**REFERENCE**  
 PIEZOMETER PZ-50D WAS SURVEYED BY SCS CIVIL FIELD SERVICES GROUP IN MAY 2020. COORDINATES ARE IN GEORGIA STATE PLANE, WEST ZONE, NAD83(2011) IN U.S. SURVEY FEET.



CLIENT  
 GEORGIA POWER COMPANY  
 PLANT SCHERER



PROJECT  
 GROUNDWATER MONITORING PROGRAM  
 SEMI-ANNUAL COMPLIANCE EVENT

TITLE  
**SITE PLAN**

CONSULTANT	YYYY-MM-DD	2020-08-18
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

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

**TABLE 1**  
**SUMMARY OF PIEZOMETER CONSTRUCTION DETAILS**  
**Georgia Power Company - Plant Scherer**  
**Juliette, Georgia**

Piezometer ID	LATITUDE (degrees)	LONGITUDE (degrees)	NAD 83 NORTHING	NAD 83 EASTING	ELEVATION TOC (ft NAVD88)	ELEVATION GROUND SURFACE (ft NAVD88)	Screened Lithology	Total Depth (feet bgs)	Depth to Bedrock (feet bgs)	Screened Interval (feet bgs)	Water Level (feet bTOC) (5/6/2020)	Date Installed
PZ-45D	33.09322971	-83.82816330	1125296.00	2400249.51	512.33	509.74	Metagabbro	165.0	103.5	110 - 165	19.54	3/9/2020
PZ-46D	33.08832034	-83.82598568	1123511.13	2400923.42	450.28	447.07	Amphibolite / Hornblende Gneiss	53.5	33.0	23.5 - 53.5	10.40	3/17/2020
PZ-47D	33.09684023	-83.81470823	1126623.84	2404365.89	410.01	406.76	Granite	26.0	Ground Surface	10.1 - 25.1	9.68	3/11/2020
PZ-48S	33.09240559	-83.81011172	1125015.59	2405780.34	444.33	441.30	Saprolite / TWR	61.0	Bedrock Not Encountered	50.75 - 60.75	29.85	3/4/2020
PZ-49D	33.08800314	-83.79434166	1123430.38	2410614.46	367.41	364.88	Diorite	106.0	35.0	76 - 106	4.60	3/6/2020
PZ-49S	33.08801621	-83.79437196	1123434.99	2410605.11	367.89	365.19	Residual Soil	25.0	Bedrock Not Encountered	15 - 25	6.61	3/7/2020
PZ-50D	33.03222172	-83.80211149	1103126.47	2408306.05	473.78	470.66	Metagabbro	100.0	70.0	90 - 100	28.05	3/18/2020
PZ-51D	33.07658668	-83.82919170	1119239.94	2399954.09	546.04	543.17	Biotite Gneiss	126.0	75.0	116 - 126	33.52	3/8/2020
PZ-52	33.08640137	-83.81717935	1122822.91	2403621.89	521.84	519.43	Saprolite	77.0	Bedrock Not Encountered	67 - 77	32.15	3/17/2020
PZ-53	33.08394269	-83.81330140	1121931.72	2404814.17	516.64	513.61	Saprolite	45.0	Bedrock Not Encountered	35 - 45	26.17	3/19/2020
PZ-54	33.08276482	-83.80761959	1121509.00	2406555.91	492.96	490.17	Saprolite	45.0	Bedrock Not Encountered	35 - 45	28.82	3/19/2020
PZ-55	33.08389990	-83.79920035	1121930.63	2409132.43	447.21	444.15	Saprolite	36.0	Bedrock Not Encountered	26 - 36	19.50	3/20/2020
PZ-56	33.08827939	-83.79943044	1123523.72	2409037.56	433.68	430.85	Biotite Gneiss	46.0	36.0	35.75 - 45.75	36.74	3/19/2020
PZ-57	33.08796818	-83.80496443	1123404.88	2407362.68	439.51	436.45	Biotite Gneiss	59.0	Bedrock Not Encountered	49 - 59	33.07	3/19/2020
PZ-58	33.08769650	-83.81200107	1123298.42	2405206.74	492.21	489.25	Saprolite	46.0	Bedrock Not Encountered	36 - 46	39.01	3/16/2020
PZ-59D	33.09297923	-83.80394129	1125230.79	2407669.66	385.86	382.86	Biotite Gneiss and Amphibolite	69.0	27.0	54 - 69	4.34	3/27/2020
PZ-59S	33.09293469	-83.80397571	1125214.48	2407659.05	385.93	382.83	Saprolite	24.0	Bedrock Not Encountered	14 - 24	4.40	3/20/2020
PZ-60D	33.09072228	-83.80207655	1124410.58	2408242.14	389.34	386.43	Biotite Gneiss and Amphibolite	100.0	45.0	69.4 - 99.4	3.58	3/29/2020
PZ-60S	33.09069400	-83.80207431	1124400.33	2408242.82	389.88	386.36	Saprolite	20.0	Bedrock Not Encountered	10 - 20	7.09	3/31/2020
PZ-61	33.08557017	-83.80115566	1122536.81	2408532.14	439.27	436.79	Saprolite, Biotite Gneiss and Metagranite	50.0	46.0	39.45 - 49.45	14.95	4/11/2020

**TABLE 1**  
**SUMMARY OF PIEZOMETER CONSTRUCTION DETAILS**  
**Georgia Power Company - Plant Scherer**  
**Juliette, Georgia**

Piezometer ID	LATITUDE (degrees)	LONGITUDE (degrees)	NAD 83 NORTHING	NAD 83 EASTING	ELEVATION TOC (ft NAVD88)	ELEVATION GROUND SURFACE (ft NAVD88)	Screened Lithology	Total Depth (feet bgs)	Depth to Bedrock (feet bgs)	Screened Interval (feet bgs)	Water Level (feet bTOC) (5/6/2020)	Date Installed
PZ-62	33.08513385	-83.80885081	1122370.22	2406176.10	501.32	498.25	Saprolite	52.0	Bedrock Not Encountered	42.25 - 52.25	38.18	4/9/2020
PZ-63	33.08950995	-83.81573718	1123956.15	2404059.66	501.54	498.87	Biotite Gneiss	40.0	30.0	30 - 40	16.26	4/12/2020
PZ-64	33.08885322	-83.80808779	1123723.25	2406405.08	479.52	475.99	Biotite Gneiss	69.0	30.0	59 - 69	42.86	4/8/2020
PZ-65	33.08392854	-83.80376913	1121936.26	2407732.50	432.42	429.57	Saprolite	30.0	Bedrock Not Encountered	20 - 30	15.22	4/11/2020
PZ-66	33.09141030	-83.79922285	1124664.50	2409114.81	421.24	418.38	Biotite Gneiss	60.0	44.0	45 - 60	33.60	4/2/2020
PZ-66D	33.09135724	-83.79950884	1124644.65	2409027.58	427.60	424.39	Biotite Gneiss and Amphibolite	266.0	46.0	Open hole 69 - 266	39.70*	5/8/2020
PZ-67	33.09449189	-83.80204133	1125782.52	2408250.00	425.94	423.22	Saprolite	40.0	Bedrock Not Encountered	29.75 - 39.75	23.55	4/1/2020
PZ-67D	33.09444381	-83.80200723	1125764.90	2408260.40	428.48	424.71	Biotite Gneiss and Amphibolite	301.0	56.0	Open Hole 83 - 301	40.32	4/25/2020
PZ-68	33.09267242	-83.80553278	1125117.30	2407182.87	395.55	392.14	Saprolite / TWR	20.0	Bedrock Not Encountered	10 - 20	5.75	4/15/2020

**Notes:**

\* The water level for PZ-66D was measured on 5/8/2020 after the piezometer installation was complete.

ft bgs = feet below ground surface

ft bTOC - feet below top of PVC casing

ft NAVD88 - North American Vertical Datum 1988

TOC = top of PVC casing

TWR = transitionally weathered rock

The survey was completed by Jordan Engineering, Inc. with the exception of PZ-50D which was provided by SCS Civil Field Services. Horizontal NAD 83 Georgia State Plane West Zone, vertical NAVD 1988.

Piezometer northing and easting are for the survey control pin.

**TABLE 2**  
**SUMMARY OF PIEZOMETER DEVELOPMENT DATA**  
**Georgia Power Company - Plant Scherer**  
**Juliette, Georgia**

Piezometer ID	Date Completed	Elapsed Time (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)
PZ-45D	4/1/2020	29:05	Reclaimer / Watera	171.7	21.40	23.85	24.5	775.0	7.18	0.236	17.73	4.05	56.78	3.81
PZ-46D	3/20/2020	3:40	Reclaimer	58.3	10.30	40.28	7.8	37.0	7.72	0.371	21.09	5.22	-41.27	2.74
PZ-47D	3/18/2020	2:45	Reclaimer	28.9	9.65	20.19	3.1	19.0	6.80	0.399	20.65	4.73	47.38	8.34
PZ-48S	3/21/2020	2:40	Reclaimer	83.8	30.84	32.55	8.6	64.0	6.40	0.231	18.67	4.54	30.21	3.76
PZ-49D	3/18/2020	2:10	Reclaimer	109.8	4.60	5.30	17.1	41.0	7.47	0.292	16.75	4.72	-7.27	1.37
PZ-49S	3/21/2020	3:10	Reclaimer	28.9	6.50	12.01	3.7	49.2	6.73	0.317	18.38	4.29	-30.21	0.63
PZ-50D	3/21/2020	3:34	Reclaimer	100.2	26.05	29.06	12.1	83.8	7.14	0.220	18.70	4.51	7.36	5.64
PZ-51D	3/17/2020	2:10	Reclaimer	130.9	34.70	38.50	15.7	34.0	7.84	0.158	17.62	3.28	41.49	2.32
PZ-52	3/22/2020	5:10	Reclaimer	79.7	30.70	65.55	8.0	80.0	6.14	0.386	18.66	3.71	59.45	0.24
PZ-53	3/22/2020	4:30	Reclaimer	47.1	26.18	28.13	3.4	70.0	5.36	0.054	18.75	4.75	52.01	1.31
PZ-54	3/23/2020	2:40	Reclaimer	49.4	27.84	38.72	3.5	48.0	5.96	0.108	18.39	1.50	45.89	3.08
PZ-55	3/23/2020	3:00	Reclaimer	38.6	20.05	23.60	3.0	50.5	6.42	0.127	19.05	3.15	54.27	5.83
PZ-56	4/9/2020	2:34	Reclaimer	45.4	33.94	43.00	1.9	22.4	6.36	0.248	19.16	2.27	109.45	5.96
PZ-57	4/9/2020	7:30	Reclaimer	52.6	25.20	43.07	4.5	54.5	9.07	0.428	20.64	2.49	-21.07	1.66
PZ-58	4/9/2020	10:24	Reclaimer	49.8	39.83	42.31	1.6	46.9	6.45	0.227	19.49	2.38	110.89	7.40
PZ-59D	4/7/2020	3:20	Reclaimer	72.3	4.32	8.22	11.1	95.0	6.84	0.220	19.58	1.15	46.55	2.00
PZ-59S	3/24/2020	3:00	Reclaimer	26.7	3.23	4.40	3.8	72.0	6.17	0.147	18.46	4.40	24.02	1.57
PZ-60D	5/29/2020	21:10	Reclaimer	104.25	4.18	75.2	16.3	296	7.99	0.314	23.13	7.19	15.02	0.75
PZ-60S	4/8/2020	7:00	Reclaimer	20.5	7.70	4.40	2.1	240	5.92	0.060	18.53	1.66	73.21	3.26
PZ-61	4/13/2020	2:40	Reclaimer	49.8	12.80	16.70	6.0	55.0	6.36	0.233	21.63	1.45	-121.27	2.62

**TABLE 2**  
**SUMMARY OF PIEZOMETER DEVELOPMENT DATA**  
**Georgia Power Company - Plant Scherer**  
**Juliette, Georgia**

Piezometer ID	Date Completed	Elapsed Time (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)
PZ-62	4/16/2020	3:53	Reclaimer	55.6	38.67	44.75	2.8	100	6.45	0.117	18.33	3.15	4.20	5.71
PZ-63	4/22/2020	2:45	Reclaimer	42.7	16.50	20.05	4.3	90.0	6.09	0.199	19.14	10.79	68.76	2.10
PZ-64	4/15/2020	3:48	Reclaimer	73.2	29.78	53.40	7.1	165	6.52	0.321	18.64	6.17	-6.76	2.60
PZ-65	4/17/2020	8:06	Reclaimer	33.1	15.46	20.10	2.9	170	6.40	0.131	18.80	4.71	98.27	2.88
PZ-66D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-66	4/14/2020	3:18	Reclaimer	58.7	31.83	57.80	4.4	34.5	6.99	0.180	17.76	3.55	84.05	8.65
PZ-67D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PZ-67	4/14/2020	1:50	Reclaimer	42.8	24.10	27.10	3.0	18.0	6.45	0.203	19.87	1.66	-170.61	4.92
PZ-68	4/17/2020	5:22	Reclaimer	23.3	6.00	18.40	2.8	42.0	6.14	0.158	16.38	2.70	51.85	2.49

**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  
 NA = Open borehole piezometer. Piezometer not developed.



## Appendix A – Cascade Drilling Bond







## Appendix B – Boring Logs/Construction Diagrams and Development Forms

# RECORD OF BOREHOLE PZ-45D

SHEET 1 of 5

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 165.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/8/20  
 DATE COMPLETED: 3/9/20

NORTHING: 1,125,296.24  
 EASTING: 2,400,250.55  
 GS ELEVATION: 509.7  
 TOC ELEVATION: 512.33 ft

DEPTH W.L.: 23.50'  
 ELEVATION W.L.: 488.66'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:20

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		
0		0.00 - 10.00 Hydro-vac to clear utilities							<b>WELL CASING</b> Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags  <b>FILTER PACK SEAL</b> Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
5	505								
10	500	10.00 - 14.00 CL, CLAY, low to moderate plasticity, dark red, moist, w-PL, soft, quartz, vermiculite, plagioclase	CL		499.7 10.00	1	ROTO 7.70 SONIC 5.00		
15	495	14.00 - 15.00 CL, CLAY, low to moderate plasticity, orange-red brown, moist, w-PL, soft, quartz, vermiculite, plagioclase	CL		495.7 14.00				
		15.00 - 25.00 CL, CLAY, low to moderate plasticity, dark red, moist, w-PL, soft, quartz, vermiculite, plagioclase	CL		494.7 15.00				
20	490	23.5' - 25', SM, SILTY SAND, fine to medium sand, silvery white to tan, non to low plasticity, w<PL, soft/loose, quartz, biotite, feldspar	CL			2	ROTO 7.00 SONIC 10.00		
25	485	25.00 - 35.00 CL, CLAY, low plasticity, orange red clay, soft, w-PL	CL		484.7 25.00				
30	480	33'-35' SM, SILTY SAND, fine to medium sand, silvery white to tan, non to low plasticity, w<PL, soft/loose, quartz, biotite, feldspar	CL			3	ROTO 6.00 SONIC 10.00		
35	475	35.00 - 53.50 SM, SILTY SAND, fine to medium sand, tannish brown, non to low plasticity, w<PL, soft/loose, quartz, biotite, feldspar, saprolitic	SM		474.7 35.00	4	ROTO 9.50 SONIC 10.00		
40	470	Log continued on next page							

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olsen

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-45D

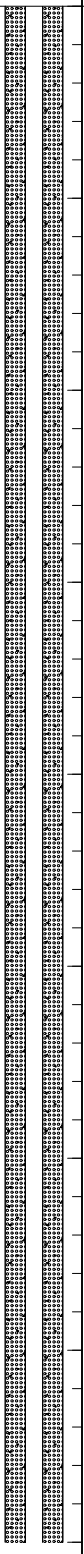
SHEET 2 of 5

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 165.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/8/20  
 DATE COMPLETED: 3/9/20

NORTHING: 1,125,296.24  
 EASTING: 2,400,250.55  
 GS ELEVATION: 509.7  
 TOC ELEVATION: 512.33 ft

DEPTH W.L.: 23.50'  
 ELEVATION W.L.: 488.66'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40		35.00 - 53.50 SM, SILTY SAND, fine to medium sand, tannish brown, non to low plasticity, w<PL, soft/loose, quartz, biotite, feldspar, saprolitic <i>(Continued)</i>	SM			4	ROTO SONIC	<u>9.50</u> 10.00		<p><b>WELL CASING</b> Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags</p> <p><b>FILTER PACK SEAL</b> Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
45	465									
50	460					5	ROTO SONIC	<u>11.00</u> 10.00		
55	455	53.50 - 55.00 SC, CLAYEY SAND, fine to coarse sand, dark green and white, loose/compact, soft, non to low plasticity, w<PL	SC		456.2 53.50					
		55.00 - 65.00 SM, SILTY SAND, very fine grain, medium to dark green, low to non plastic, moist to wet, decreases with depth			454.7 55.00					
60	450		SM			6	ROTO SONIC	<u>10.00</u> 10.00		
65	445	65.00 - 75.00 SM, SILTY SAND, fine to coarse, medium to dark green, low to non plastic, moist, decreases with depth			444.7 65.00					
70	440		SM			7	ROTO SONIC	<u>10.00</u> 10.00		
75	435	75.00 - 85.00 SM, SILTY SAND, fine to coarse, medium to dark green, low to non plastic, dry to moist, chlorite, "schistose"/"meta-proxenite"			434.7 75.00					
		massive water staining from 78'-80'	SM			8	ROTO SONIC	<u>9.00</u> 10.00		
80	430	83'-85' metagabbro Log continued on next page								

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olsen

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-45D

SHEET 3 of 5

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 165.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/8/20  
 DATE COMPLETED: 3/9/20

NORTHING: 1,125,296.24  
 EASTING: 2,400,250.55  
 GS ELEVATION: 509.7  
 TOC ELEVATION: 512.33 ft

DEPTH W.L.: 23.50'  
 ELEVATION W.L.: 488.66'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:20

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
80			SM			8	ROTO SONIC	9.00 10.00		<p><b>WELL CASING</b> Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags</p> <p><b>FILTER PACK SEAL</b> Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
85	425	85.00 - 103.50 SM, SILTY SAND, Metagabbro/metapyroxenite, interlayered, light to dark green, gabbro- trace gravel, some clay, low plasticity, loose, dry to moist pyroxenite - moist, fine to moderate sand, trace gravel, non plastic, compact			424.7 85.00					
90	420					9	ROTO SONIC	13.50 10.00		
95	415		SM							
100	410					10	ROTO SONIC	12.00 10.00		
105	405	103.50 - 165.00 METAGABBRO, fine grain, pyrite, biotite, hornblende, unfoliated, poorly jointed, slightly to moderately weathered, medium strong			406.2 103.50					
110	400	Rock sample collected 136.5'-137.0'				11	ROTO SONIC	1.20 10.00		
		Rock sample collected 158.8'-159.4'	BR							
115	395									
120	390					12	ROTO SONIC	2.90 10.00		

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olsen

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-45D

SHEET 4 of 5

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 165.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/8/20  
 DATE COMPLETED: 3/9/20

NORTHING: 1,125,296.24  
 EASTING: 2,400,250.55  
 GS ELEVATION: 509.7  
 TOC ELEVATION: 512.33 ft

DEPTH W.L.: 23.50'  
 ELEVATION W.L.: 488.66'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
120		103.50 - 165.00 METAGABBRO, fine grain, pyrite, biotite, hornblende, unfoliated, poorly jointed, slightly to moderately weathered, medium strong				12	ROTO 2.90 SONIC 10.00		Sand -	<p><b>WELL CASING</b> Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags</p> <p><b>FILTER PACK SEAL</b> Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
125	385	Rock sample collected 136.5'-137.0'								
130	380	Rock sample collected 158.8'-159.4' (Continued)				13	ROTO 3.80 SONIC 10.00			
135	375									
140	370		BR			14	ROTO 8.50 SONIC 10.00			
145	365									
150	360					15	ROTO 6.60 SONIC 10.00	0.010" Slotted - Screen		
155	355									
160	350					16	ROTO 8.80 SONIC 10.00			

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olsen

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-45D

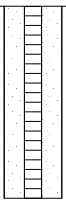
SHEET 5 of 5

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 165.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/8/20  
 DATE COMPLETED: 3/9/20

NORTHING: 1,125,296.24  
 EASTING: 2,400,250.55  
 GS ELEVATION: 509.7  
 TOC ELEVATION: 512.33 ft

DEPTH W.L.: 23.50'  
 ELEVATION W.L.: 488.66'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:20

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		
160			BR			16	ROTO 8.80 SONIC 10.00			<p><b>WELL CASING</b>                      Interval: 0' - 110'                      Material: Sch 40 PVC                      Diameter: 2"                      Joint Type: Threaded</p> <p><b>WELL SCREEN</b>                      Interval: 110' - 165'                      Material: U-Pack Screen                      Diameter: 2"                      Slot Size: 0.010"                      End Cap: 3"</p> <p><b>FILTER PACK</b>                      Interval: 105' - 165'                      Type: #1 Sand                      Quantity: 20.5bags</p> <p><b>FILTER PACK SEAL</b>                      Interval: 101.8' - 105'                      Type: Pel Plug                      Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b>                      Interval: 0' - 101.8'                      Type: Cement-Bentonite                      Quantity: 1100lbs Cement,                      20lbs Bentonite, 160gal Water</p> <p><b>WELL COMPLETION</b>                      Pad: 4' x 4'                      Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b>                      Soil Drill: Roto Sonic                      Rock Drill: Roto Sonic</p>
165	345	Boring completed at 165.00 ft								
170	340									
175	335									
180	330									
185	325									
190	320									
195	315									
200	310									

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olsen

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-46D

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 53.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/16/20  
 DATE COMPLETED: 3/17/20

NORTHING: 1,123,512.22  
 EASTING: 2,400,923.25  
 GS ELEVATION: 447.1  
 TOC ELEVATION: 450.28 ft

DEPTH W.L.: 12.42'  
 ELEVATION W.L.: 427.11'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 12:42

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
0		0.00 - 5.00 Hand auger							<b>WELL CASING</b> Interval: 0' - 23.5' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 23.5' - 53.5' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 20' - 53.5' Type: #1 Sand Quantity: 9.5 Bags  <b>FILTER PACK SEAL</b> Interval: 16' - 20' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 16' Type: Cement-Bentonite Quantity: 300lbs Cement, 10lbs Bentonite, 30gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
445		CL, SILTY CLAY, little to very fine sand, 7.5 YR 3/3 dark brown, vein quartz cobbles throughout, residual soil/colluvium	CL		442.1			Riser -	
5		5.00 - 15.00 Hand auger and core barrel overdrill			5.00				
440		ML, sandy CLAYEY SILT, very fine to medium sand, 5Y 4/2 olive gray, deeply weathered amphibolite with some partially weathered to unweathered amphibolite (river terrace deposits), foliated, quartz-plagioclase-biotite	ML					Grout -	
10									
435									
15		15.00 - 33.00 Transitionally Weathered Rock, amphibolite/hornblende gneiss, gley 2.5/1 blueish black to 5G 2/1 greenish black, fine grained quartz-plagioclase, biotite-hornblende, foliated, trace very fine pyrite (metallic luster, gold color).  Driller notes rock interlayered with weathered material			432.1				Bentonite -
430					15.00	1	8.00 10.00		
20									
425									
25									
420									
30									
415									
35		33.00 - 53.00 AMPHIBOLITE/HORNBLLENDE GNEISS, fine grained, minor oxidation at 38' and 42.5', quartz-plagioclase-biotite-hornblende, trace pyrite, foliated			414.1				Sand -
410					33.00	3	10.00 10.00		
40		Rock sample collected 49.0'-49.5'	BR						
		Log continued on next page							

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-46D

SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 53.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/16/20  
 DATE COMPLETED: 3/17/20

NORTHING: 1,123,512.22  
 EASTING: 2,400,923.25  
 GS ELEVATION: 447.1  
 TOC ELEVATION: 450.28 ft

DEPTH W.L.: 12.42'  
 ELEVATION W.L.: 427.11'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 12:42

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
40		33.00 - 53.00 AMPHIBOLITE/HORNBLLENDE GNEISS, fine grained, minor oxidation at 38' and 42.5', quartz-plagioclase-biotite-hornblende, trace pyrite, foliated		[Yellow dotted pattern]			3	10.00	<p style="text-align: center;">0.010" Slotted Screen</p>	<p><b>WELL CASING</b>                      Interval: 0' - 23.5'                      Material: Sch 40 PVC                      Diameter: 2"                      Joint Type: Threaded</p> <p><b>WELL SCREEN</b>                      Interval: 23.5' - 53.5'                      Material: U-Pack Screen                      Diameter: 2"                      Slot Size: 0.010"                      End Cap: 3"</p> <p><b>FILTER PACK</b>                      Interval: 20' - 53.5'                      Type: #1 Sand                      Quantity: 9.5 Bags</p> <p><b>FILTER PACK SEAL</b>                      Interval: 16' - 20'                      Type: Pel Plug                      Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b>                      Interval: 0' - 16'                      Type: Cement-Bentonite                      Quantity: 300lbs Cement, 10lbs Bentonite, 30gal Water</p> <p><b>WELL COMPLETION</b>                      Pad: 4' x 4'                      Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b>                      Soil Drill: Roto Sonic                      Rock Drill: Roto Sonic</p>
405										
45		Rock sample collected 49.0'-49.5' (Continued)	BR							
400					4		8.00 10.00			
50										
55		Boring completed at 53.00 ft								
60										
65										
70										
75										
80										

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# RECORD OF BOREHOLE PZ-47D

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 26.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/11/20  
 DATE COMPLETED: 3/11/20

NORTHING: 1,126,623.42  
 EASTING: 2,404,366.80  
 GS ELEVATION: 406.8  
 TOC ELEVATION: 410.01 ft

DEPTH W.L.: 9.70'  
 ELEVATION W.L.: 400.19'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 10:55

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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	405	0.00 - 6.00 GRANITE, N4 medium dark grey, hard, quartz, plagioclase, biotite, no fractures.	BR		400.8	1	ROTO 1.00 SONIC 6.00	1		<b>WELL CASING</b> Interval: 0' - 10.1' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded
5	400	6.00 - 16.00 GRANITE, strong, medium dark grey, 10R 5/4, pale reddish brown, quartz-rich, biotite, muscovite, plagioclase, thick lens of K-feldspar dominant, no fractures, very hard.	BR		390.8	2	ROTO 4.70 SONIC 10.00	2		<b>WELL SCREEN</b> Interval: 10.1' - 25.1' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3'
10	395	16.00 - 26.00 GRANITE, 5B 5/1, N4 medium blue-gray, small fractures at 16.5, 16.9, 17.7, 18.6, 22.1, 23.1, 24, 24.5, and 25 feet. No discoloration from weathering, breaks potential mechanical. Mineralogy consists of quartz, plagioclase, K-spar, biotite	BR		390.8	3	ROTO 10.00 SONIC 10.00	3		<b>FILTER PACK</b> Interval: 8' - 25.1' Type: 20/30 Sand Quantity: 5.5 Bags
15	390	Rock sample collected 19.7'-20.3'	BR		380.8				<b>FILTER PACK SEAL</b> Interval: 6' - 8' Type: Pel Plug Quantity: 1-5 gallon bucket	
20	385	Boring completed at 26.00 ft							<b>ANNULUS SEAL</b> Interval: 0' - 6' Type: Cement-Bentonite Quantity: 95lbs Cement, 5lbs Bentonite, 10gal Water	
25	380								<b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum	
30	375								<b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic	
35	370									
40										

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: B. Steele, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-48S

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 65.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/4/20  
 DATE COMPLETED: 3/4/20

NORTHING: 1,125,014.71  
 EASTING: 2,405,779.92  
 GS ELEVATION: 441.3  
 TOC ELEVATION: 444.33 ft

DEPTH W.L.: 30.50'  
 ELEVATION W.L.: 413.56'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 10:35

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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	440	0.00 - 10.00 CL, SILTY CLAY, 2.5 YR 4/6 red, residual soil, very weathered biotite gneiss, no foliation, very fine muscovite throughout, moist, very soft.	CL	[Hatched Pattern]					<p><b>WELL CASING</b> Interval: 0' - 50.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 50.75' - 60.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 48' - 60.75' Type: #1 Sand Quantity: 4 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 44' - 48' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 44' Type: Cement-Bentonite Quantity: 600lb Cement, 30lb Bentonite, 70gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>		
5	435		CL								
10	430	10.00 - 14.00 CL, SILTY CLAY, 2.5 YR 4/6 red, residual soil, very weathered biotite gneiss with interlayers of very weathered amphibolite (10 YR 5/6 yellowish brown), relict foliation not observed, very fine muscovite within very weathered biotite, moist, soft.	CL	[Hatched Pattern]	431.3	10.00	1			ROTO 5.00 SONIC 5.00	
15	425	14.00 - 23.00 ML, CLAYEY SILT, residual soil, very weathered biotite gneiss, relict foliation, very weathered biotite-muscovite-plagioclase with trace quartz, moist, soft.	ML	[Hatched Pattern]	427.3	14.00				2	ROTO 10.00 SONIC 10.00
20	420		ML								
25	415	23.00 - 30.00 ML, CLAYEY SILT, trace fine to medium sand, 2.5 Y 6/3 light yellowish brown, very weathered biotite gneiss, relict foliation, very weathered biotite-muscovite-plagioclase with trace quartz, moist, soft.	ML	[Hatched Pattern]	418.3	23.00					
30	410	30.00 - 36.00 ML, CLAYEY SILT, 10 YR 5/4 yellowish brown, very weathered biotite gneiss, relict foliation, thin 1" lens of slightly weathered biotite gneiss, some minerals highly weathered to a light green color (amphibolite).	ML	[Hatched Pattern]	411.3	30.00	3	ROTO 10.00 SONIC 10.00			
35	405	36.00 - 39.00 ML, SILT, with very fine to fine sand, gley 3/1 very dark greenish grey and 10 YR 5/4 yellowish brown, ~6" very weathered amphibolite interlayered within biotite gneiss unit - two 6" layers weathered to highly weathered biotite gneiss, biotite-muscovite-plagioclase with some quartz, amphibolite-hornblende and plagioclase, SAPROLITE	ML	[Hatched Pattern]	405.3	36.00	4	ROTO 10.00 SONIC 10.00			
40			ML	[Hatched Pattern]	402.3	39.00					

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-48S

SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 65.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/4/20  
 DATE COMPLETED: 3/4/20

NORTHING: 1,125,014.71  
 EASTING: 2,405,779.92  
 GS ELEVATION: 441.3  
 TOC ELEVATION: 444.33 ft

DEPTH W.L.: 30.50'  
 ELEVATION W.L.: 413.56'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 10:35

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC			
40	400	39.00 - 61.00 ML, sandy SILT, very fine to fine sand, 2.5 Y 5/2 greyish brown, weathered biotite gneiss, muscovite rich layer, muscovite-biotite-plagioclase with trace quartz, moist, firm SAPROLITE (Continued)	ML				4	ROTO -10.00		Bentonite	<p><b>WELL CASING</b> Interval: 0' - 50.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 50.75' - 60.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 48' - 60.75' Type: #1 Sand Quantity: 4 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 44' - 48' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 44' Type: Cement-Bentonite Quantity: 600lb Cement, 30lb Bentonite, 70gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
45	395							SONIC 10.00			
50	390							5			
55	385	61.00 - 65.00 ML, sandy SILT, Transitionally Weathered Rock, weathered biotite gneiss, driller noted first rock encountered at 61'	TWR				6	ROTO 5.00		0.010" Slotted Screen	
60	380							SONIC 10.00			
65	375	Boring completed at 65.00 ft				376.3	380.3	61.00			

BOREHOLE RECORD - PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ - PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-49D

SHEET 1 of 3

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 106.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/3/20  
 DATE COMPLETED: 3/6/20

NORTHING: 1,123,429.73  
 EASTING: 2,410,615.29  
 GS ELEVATION: 364.9  
 TOC ELEVATION: 367.41 ft

DEPTH W.L.: 4.50'  
 ELEVATION W.L.: 362.79'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:35

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		
0		0.00 - 2.00 SM, SILTY SAND, fine sand, brown, wet, w<PL, non-plastic, loose/soft, biotite and quartz	SM		362.9				<b>WELL CASING</b> Interval: 0' - 76' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 76' - 106' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 73.5' - 106' Type: #1 Sand Quantity: 9 Bags  <b>FILTER PACK SEAL</b> Interval: 69.8' - 73.5' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 69.8' Type: Cement-Bentonite Quantity: 554lbs Cement, 20lbs Bentonite, 60gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
		2.00 - 4.00 SP, SAND, fine sand, non-plastic, w<PL, moist, compact, Salt and pepper with green hue, uniform graded	SP		2.00				
		4.00 - 8.00 SP, SAND, coarse sand, non-plastic, w<PL, moist, compact, Salt and pepper with green hue, uniform graded	SP		360.9				
5	360				4.00				
		8.00 - 15.00 SM, SAND and SILT, moist, dark green, w<PL, non-plastic, loose, firm, large white grain, plagioclase	SM		356.9				
10	355				8.00				
		15.00 - 35.00 SM, Sand and Silt, moist, medium green, w<PL, non-plastic, loose, firm, large white grain, plagioclase, RESIDUUM/SAPROLITE	SM		349.9				
15	350				15.00	1 ROTO 11.00 SONIC 5.00			
20	345					2 ROTO 10.00 SONIC 10.00			
25	340								
30	335					3 ROTO 10.00 SONIC 10.00			
35	330	35.00 - 55.00 DIORITE, plagioclase, biotite, hornblende, medium grained, fresh to slightly weathered, poorly foliated, poorly jointed, light grey to dark green/black, dry to wet, last foot multiple fractures	BR		329.9				
					35.00	4 ROTO 6.00 SONIC 10.00			
40	325								

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-49D

SHEET 2 of 3

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 106.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/3/20  
 DATE COMPLETED: 3/6/20

NORTHING: 1,123,429.73  
 EASTING: 2,410,615.29  
 GS ELEVATION: 364.9  
 TOC ELEVATION: 367.41 ft

DEPTH W.L.: 4.50'  
 ELEVATION W.L.: 362.79'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:35

BOREHOLE RECORD: PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
40		35.00 - 55.00 DIORITE, plagioclase, biotite, hornblende, medium grained, fresh to slightly weathered, poorly foliated, poorly jointed, light grey to dark green/black, dry to wet, last foot multiple fractures <i>(Continued)</i>	BR	[Red X Pattern]				[Well Diagram]	<b>WELL CASING</b> Interval: 0' - 76' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 76' - 106' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 73.5' - 106' Type: #1 Sand Quantity: 9 Bags  <b>FILTER PACK SEAL</b> Interval: 69.8' - 73.5' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 69.8' Type: Cement-Bentonite Quantity: 554lbs Cement, 20lbs Bentonite, 60gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
45	320					4	ROTO SONIC		
50	315			5	ROTO SONIC	10.00 10.00			
55	310	55.00 - 75.00 DIORITE, plagioclase, biotite, hornblende, medium grained, fresh to slightly weathered, poorly foliated, poorly jointed, light grey to dark green/black, dry to wet  broken core at 58'-59' and 61'-62'  Fractures at 66.2', 74.5'	BR	[Red X Pattern]			309.9 55.00	[Well Diagram]	
60	305					6	ROTO SONIC		9.70 10.00
65	300			7	ROTO SONIC	7.80 10.00	Bentonite -		
75	290		BR	[Red X Pattern]			289.9 75.00	[Well Diagram]	
80	285					8	ROTO SONIC		10.00 10.00

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-49D

SHEET 3 of 3

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 106.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/3/20  
 DATE COMPLETED: 3/6/20

NORTHING: 1,123,429.73  
 EASTING: 2,410,615.29  
 GS ELEVATION: 364.9  
 TOC ELEVATION: 367.41 ft

DEPTH W.L.: 4.50'  
 ELEVATION W.L.: 362.79'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:35

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
80		75.00 - 85.00 DIORITE, plagioclase, biotite, hornblende, medium grained, fresh to slightly weathered, poorly foliated, poorly jointed, light grey to dark green/black, dry to wet,  at 77'-78' fine grain amphibolite, salt and pepper, plagioclase, quartz, hornblende, poorly foliated, poorly jointed, freshley weathered	BR		279.9	8	ROTO 10.00 SONIC 10.00	0.010" Slotted - Screen	<p><b>WELL CASING</b> Interval: 0' - 76' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 76' - 106' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 73.5' - 106' Type: #1 Sand Quantity: 9 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 69.8' - 73.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 69.8' Type: Cement-Bentonite Quantity: 554lbs Cement, 20lbs Bentonite, 60gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
85	280	Rock sampled collected at 77.8' - 78.9'  78-85' weakly foliated  Fractures at 82.8', 83.1' (Continued)			85.00				
90	275	85.00 - 95.00 DIORITE, plagioclase, biotite, hornblende, medium grained, fresh to slightly weathered, poorly foliated, poorly jointed, light grey to dark green/black, dry to wet, starts to become more gneissic/foliated	BR		269.9	9	ROTO 8.50 SONIC 10.00		
95	270	95.00 - 106.00 Intermixed DIORITE and HORNBLENDE GNEISS, weak to well foliated, poorly jointed, fine to large grain, evidence of water at 96.2'			95.00				
100	265		BR		258.9	10	ROTO 7.70 SONIC 11.00		
		Boring completed at 106.00 ft							
110	255								
115	250								
120	245								

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-49S

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 25.50 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/7/20  
 DATE COMPLETED: 3/7/20

NORTHING: 1,123,434.46  
 EASTING: 2,410,605.99  
 GS ELEVATION: 365.2  
 TOC ELEVATION: 367.89 ft

DEPTH W.L.: 6.70'  
 ELEVATION W.L.: 361.01'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 8:30

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		
0	365	0.00 - 10.00 Hydro-vac for utility clearance							<p><b>WELL CASING</b> Interval: 0' - 15' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 15' - 25' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 13' - 25' Type: #1 Sand Quantity: 4.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 7' - 13' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 7' Type: Cement-Bentonite Quantity: 200lbs Cement, 10lb Bentonite, 20gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
5	360						Grout -		
10	355	10.00 - 11.00 GP, SANDY GRAVEL, fine gravels with fine to coarse sand, poorly graded, greenish-brown, wet, W < PL, non-plastic, loose.	GP		355.2 10.00 354.2 11.00	1	ROTO 7.00 SONIC 5.50		
15	350	11.00 - 20.50 SM, SILTY SAND, wet, non to low plasticity, W < PL, loose to firm. Residuum soil after diorite.	SM					Bentonite -	
20	345	20.50 - 25.50 CL, CLAY with some sand, dark to medium green, spotted, low plasticity, W < PL, moist to wet, soft to firm.	CL		344.7 20.50	2	ROTO 10.00 SONIC 10.00	Sand -	
25	340	Boring completed at 25.50 ft			339.7			0.010" Slotted Screen	
30	335								
35	330								
40									

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-50D

SHEET 1 of 3

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 100.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/17/20  
 DATE COMPLETED: 3/18/20

NORTHING: 1,103,125.91  
 EASTING: 2,408,306.87  
 GS ELEVATION: 470.66  
 TOC ELEVATION: 473.78 ft

DEPTH W.L.: 26.05  
 ELEVATION W.L.: 447.73  
 DATE W.L.: 3/21/2020  
 TIME W.L.: 10:15

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
0	470	0.00 - 10.00 Hand auger for utility clearance.							<b>WELL CASING</b> Interval: 0' - 90' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 90' - 100' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 87' - 100' Type: U-Pack Prepack Quantity: 4 bags  <b>FILTER PACK SEAL</b> Interval: 84' - 87' Type: Pel Plug Quantity: 2.5 gal bucket  <b>ANNULUS SEAL</b> Interval: 0' - 84' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 7lbs Bentonite, 17gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
5	465								
10	460	10.00 - 20.00 CL, CLAY with little silt and trace fine sand, dark green and white speckled, low PL, W < PL, soft to firm, residuum after metagabbro, plagioclase, moist.	CL		460.66 10.00	1	ROTO 5.00 SONIC 5.00		
15	455								
20	450	20.00 - 29.00 SM, SILTY SAND, non to low PL, dry to moist, dark green with weathering, W < PL, loose to compact, same host rock as above with less plagioclase and more mafic minerals.	SM		450.66 20.00	2	ROTO 10.00 SONIC 10.00		
25	445								
30	440	29.00 - 40.00 CL, CLAY with little silt and trace fine sand, dark green and white speckled, low PL, W < PL, soft to firm, residuum after metagabbro, plagioclase, moist.	CL		441.66 29.00	3	ROTO 10.00 SONIC 10.00		
35	435								
40	430				430.66	4	ROTO 10.00 SONIC 10.00		

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# RECORD OF BOREHOLE PZ-50D

SHEET 2 of 3

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 100.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/17/20  
 DATE COMPLETED: 3/18/20

NORTHING: 1,103,125.91  
 EASTING: 2,408,306.87  
 GS ELEVATION: 470.66  
 TOC ELEVATION: 473.78 ft

DEPTH W.L.: 26.05  
 ELEVATION W.L.: 447.73  
 DATE W.L.: 3/21/2020  
 TIME W.L.: 10:15

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES		MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE REC		
40	430	40.00 - 41.50 SC, CLAYEY SAND with trace to little fine gravels, dark green, low to moderate PL, W - PL, compact to firm, moist, subround to subangular gravels, vein quartz, fluvial/alluvial.	SC	[Hatched Pattern]	40.00 429.16	4	ROTO 10.00 SONIC 10.00	[Well Diagram]	<p><b>WELL CASING</b> Interval: 0' - 90' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 90' - 100' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 87' - 100' Type: U-Pack Prepack Quantity: 4 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 84' - 87' Type: Pel Plug Quantity: 2.5 gal bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 84' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 7lbs Bentonite, 17gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
		41.50 - 50.00 SM-GM, SILTY SAND to SILTY GRAVEL, well graded, light to dark green-black, non PL, W < PL, dry to wet (~45'), dense to very dense.	SM-GM	[Dotted Pattern]	41.50				
45	425								
50	420	50.00 - 55.00 SM, SILTY SAND, dark green, non-PL, W < PL, loose, dry to moist.	SM	[Vertical Lines]	420.66 50.00	5	ROTO 7.40 SONIC 10.00		
55	415	55.00 - 70.00 Deeply weathered METAGABBRO, extremely weak to weak, plagioclase-amphibole, weathering rhine where fresher, salt/pepper fine to medium grained.  65-70 assumed same as above, washed out.		[Pink Hatched Pattern]	415.66 55.00	6	ROTO 8.20 SONIC 10.00		
60	410		TWR						
65	405								
70	400	70.00 - 75.00 METAGRABBRO, dark green and white, fresh to slightly weathered, medium strong to strong, most of core is broken to fractures - indicative of water movement.	BR	[Pink Hatched Pattern]	400.66 70.00	7	ROTO 2.90 SONIC 10.00		
75	395	75.00 - 100.00 METAGABBRO, fine to medium grained, dark green to black and white, amphiboles and plagioclase, unfoliated, fresh to slightly weathered, medium strong to strong.  Highly fractured zone 78'-80', water staining, appaers as gravel sized particles.  Rock sample collected 94.0'-94.5'	BR	[Pink Hatched Pattern]	395.66 75.00	8	ROTO 7.75 SONIC 10.00		
80		Log continued on next page							

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-50D

SHEET 3 of 3

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 100.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/17/20  
 DATE COMPLETED: 3/18/20

NORTHING: 1,103,125.91  
 EASTING: 2,408,306.87  
 GS ELEVATION: 470.66  
 TOC ELEVATION: 473.78 ft

DEPTH W.L.: 26.05  
 ELEVATION W.L.: 447.73  
 DATE W.L.: 3/21/2020  
 TIME W.L.: 10:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
80	390	75.00 - 100.00 METAGABBRO, fine to medium grained, dark green to black and white, amphiboles and plagioclase, unfoliated, fresh to slightly weathered, medium strong to strong.  Highly fractured zone 78'-80', water staining, appears as gravel sized particles.  Rock sample collected 94.0'-94.5' (Continued)	BR		8	ROTO 7.75 SONIC 10.00			<b>WELL CASING</b> Interval: 0' - 90' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 90' - 100' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 87' - 100' Type: U-Pack Prepack Quantity: 4 bags  <b>FILTER PACK SEAL</b> Interval: 84' - 87' Type: Pel Plug Quantity: 2.5 gal bucket  <b>ANNULUS SEAL</b> Interval: 0' - 84' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 7lbs Bentonite, 17gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic	
85	385				9	ROTO 7.20 SONIC 10.00				
90	380				10	ROTO 4.60 SONIC 5.00				
95	375			370.66						
100	370	Boring completed at 100.00 ft								
105	365									
110	360									
115	355									
120										

BOREHOLE RECORD: PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-51D

SHEET 1 of 4

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 126.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/6/20  
 DATE COMPLETED: 3/8/20

NORTHING: 1,119,239.99  
 EASTING: 2,399,955.07  
 GS ELEVATION: 543.2  
 TOC ELEVATION: 546.04 ft

DEPTH W.L.: 38.4'  
 ELEVATION W.L.: 507.58'  
 DATE W.L.: 3/17/2020  
 TIME W.L.: 13:30

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 10.00 CL, SILTY CLAY, trace very fine to fine sand, 2.5 YR 4/6 red, deeply weathered biotite gneiss, little to no relict foliation, very weathered biotite-muscovite-plagioclase, trace quartz, moist, very soft to soft, residual soil	CL		533.2					<p><b>WELL CASING</b> Interval: 0' - 116' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 116' - 126' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 113' - 126' Type: 20/30 Sand Quantity: 6 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 109.8' - 113' Type: Pel Plug Quantity: 5gal bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 109.8' Type: Cement-Bentonite Quantity: 250lbs Cement, 15lbs Bentonite, 30gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
540										
5										
535										
10		10.00 - 16.00 CL, SILTY CLAY, trace very fine to fine sand, 2.5 YR 4/6 Red, deeply weathered to very weathered biotite gneiss, little to no relict foliation, very weathered biotite-muscovite-plagioclase, trace quartz, moist, very soft to soft, residual soil	CL		10.00	1	5.00 6.00			
530										
15										
525		16.00 - 20.00 CL, SILTY CLAY, trace very fine to fine sand, 2.5 YR 4/6 red, deeply weathered to very weathered biotite gneiss, little to no relict structure/foliation, very weathered biotite-muscovite-plagioclase, trace quartz, moist, very soft to sft, 6' lens of 5 YR	CL		16.00					
20										
520		20.00 - 21.00 ML, sandy CLAYET SILT, very fine to fine sand, 2.5 YR 5/4 reddish brown, very weathered biotite gneiss, very weathered biotite-muscovite-plagioclase, little quartz, moist, soft	ML		20.00 522.2 21.00	2	5.00 10.00			
25										
515		26.00 - 32.50 ML, CLAYEY SILT, some fine sand, 5 YR 5/6 yellowish red, very weathered biotite gneiss, very weathered biotite-muscovite quartz, moist, soft, SAA from 27.5-28.75, < 1mm pyroclucite	ML		26.00					
30										
510		32.50 - 36.00 Wash out			32.50					
35										
505		36.00 - 39.00 ML, CLAYEY SILT, some fine to medium sand, 5 YR 5/8 yellowish red, very weathered biotite gneiss, muscovite, biotite, some quartz, moist, very soft	ML		36.00	4	10.00 10.00			
40										
		Log continued on next page								

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: C. Hall

GA INSPECTOR: B. Steele, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-51D

SHEET 2 of 4

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 126.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/6/20  
 DATE COMPLETED: 3/8/20

NORTHING: 1,119,239.99  
 EASTING: 2,399,955.07  
 GS ELEVATION: 543.2  
 TOC ELEVATION: 546.04 ft

DEPTH W.L.: 38.4'  
 ELEVATION W.L.: 507.58'  
 DATE W.L.: 3/17/2020  
 TIME W.L.: 13:30

BOREHOLE RECORD - PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40		39.00 - 50.00 ML, CLAYEY SILT, little fine sand, 5 YR 5/6 yellowish red, very weathered biotite gneiss, muscovite rich, little quartz, moist, soft to firm (Continued)	ML		493.2	4		10.00	10.00	<p><b>WELL CASING</b> Interval: 0' - 116' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 116' - 126' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 113' - 126' Type: 20/30 Sand Quantity: 6 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 109.8' - 113' Type: Pel Plug Quantity: 5gal bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 109.8' Type: Cement-Bentonite Quantity: 250lbs Cement, 15lbs Bentonite, 30gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
50		50.00 - 52.50 ML, sandy SILT, little clay, 5YR 5/3 olive, very weathered biotite gneiss, rich in biotite-muscovite-quartz, moist, soft			50.00			5		
45		52.50 - 56.00 Transitionally Weathered Rock, weathered BIOTITE GNEISS, 5Y 5/3 olive, rich in muscovite, biotite, plagioclase, quartz, amphibolite bands, dry, compact	TWR		490.7	6		10.00	10.00	
49		56.00 - 59.50 MLS, sandy SILT, fine sand, 7.5 YR 5/3 brown, very weathered biotite gneiss, amphibolite, rich in muscovite-biotite, some quartz, moist, soft			52.50					6
55		59.50 - 66.00 Transitionally Weathered Rock, BIOTITE GNEISS with some amphibolite, grey 1 5/1 greenish grey, rich in hornblende, biotite, muscovite, plagioclase, compact	TWR		487.2	7		2.00	10.00	
60		66.00 - 68.00 MLS, sandy SILT, compact to loose sand, rich in muscovite-biotite, quartz, amphibolite, grey 1 5/1 greenish grey, wet, loose			56.00					7
65		68.00 - 76.00 Wash out	ML		483.7	8		4.90	10.00	
70		76.00 - 80.90 BIOTITE GNEISS, 5Y 4/1 olive grey, biotite, plagioclase, quartz, weathered from fractures, hard			59.50					8
75		Log continued on next page	477.2	66.00	475.2	68.00	467.2	76.00		

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: C. Hall

GA INSPECTOR: B. Steele, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-51D

SHEET 3 of 4

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 126.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/6/20  
 DATE COMPLETED: 3/8/20

NORTHING: 1,119,239.99  
 EASTING: 2,399,955.07  
 GS ELEVATION: 543.2  
 TOC ELEVATION: 546.04 ft

DEPTH W.L.: 38.4'  
 ELEVATION W.L.: 507.58'  
 DATE W.L.: 3/17/2020  
 TIME W.L.: 13:30

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		
80		80.90 - 86.00 No Recovery	BR	[Red wavy lines]	462.3 80.90	8		4.90 10.00		<p><b>WELL CASING</b> Interval: 0' - 116' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 116' - 126' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 113' - 126' Type: 20/30 Sand Quantity: 6 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 109.8' - 113' Type: Pel Plug Quantity: 5gal bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 109.8' Type: Cement-Bentonite Quantity: 250lbs Cement, 15lbs Bentonite, 30gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
460		86.00 - 91.00 BIOTITE GNEISS, 5Y 4/1 olive grey to N4 medium dark grey, predominantly quartz, biotite, plagioclase, amphibolite, hard. Fractures at 86.6, 88.2, 89, 90, 91.	BR	[Red wavy lines]	457.2 86.00					
85		91.00 - 92.00 BIOTITE GNEISS, 5Y 4/1 olive grey, biotite, plagioclase, quartz, weathered from fractures, hard	BR	[Red wavy lines]	452.2 91.00	9		6.00 10.00		
90		92.00 - 96.00 No Recovery	BR	[Red wavy lines]	451.2 92.00					
455		96.00 - 100.20 BIOTITE GNEISS, 5Y 4/1 olive grey to N4 medium dark grey, fractures at 97, 97.4, 98, 99, 100, rich in biotite-plagioclase-quartz, very little amphibolite, compact	BR	[Red wavy lines]	447.2 96.00					
95		100.20 - 101.40 Transitionally Weathered Rock, silty SAND, rich in amphibolite-plagioclase-muscovite, some quartz, loose, highly weathered	BR	[Red wavy lines]	443 100.20	10		5.20 10.00		
440		101.40 - 106.00 No Recovery	BR	[Red wavy lines]	441.8 101.40					
100		106.00 - 116.00 BIOTITE GNEISS, thin lens of Transitionally Weathered Rock (same as 100.2-101.4), weathered fractures throughout, rich in biotite-plagioclase-muscovite. N4 medium dark grey, compact, some broken	BR	[Red wavy lines]	437.2 106.00					
435		116.00 - 126.00 BIOTITE GNEISS, N4 medium dark grey, biotite-plagioclase-muscovite-quartz, heavily fractured. Quartz vein at 117', compact	BR	[Red wavy lines]	427.2 116.00	11		3.80 10.00		
110		Rock sample collected 118.0'-118.5'	BR	[Red wavy lines]		12		5.50 10.00		
430			BR	[Red wavy lines]						
115			BR	[Red wavy lines]						
425			BR	[Red wavy lines]						
120			BR	[Red wavy lines]						

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ - PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: C. Hall

GA INSPECTOR: B. Steele, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-51D

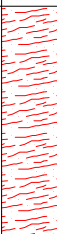
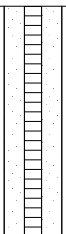
SHEET 4 of 4

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 126.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/6/20  
 DATE COMPLETED: 3/8/20

NORTHING: 1,119,239.99  
 EASTING: 2,399,955.07  
 GS ELEVATION: 543.2  
 TOC ELEVATION: 546.04 ft

DEPTH W.L.: 38.4'  
 ELEVATION W.L.: 507.58'  
 DATE W.L.: 3/17/2020  
 TIME W.L.: 13:30

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		
120		116.00 - 126.00 BIOTITE GNEISS, N4 medium dark grey, biotite-plagioclase-muscovite-quartz, heavily fractured. Quartz vein at 117', compact						Sand — 	<p><b>WELL CASING</b>                      Interval: 0' - 116'                      Material: Sch 40 PVC                      Diameter: 2"                      Joint Type: Threaded</p> <p><b>WELL SCREEN</b>                      Interval: 116' - 126'                      Material: U-Pack Screen                      Diameter: 2"                      Slot Size: 0.010"                      End Cap: 3"</p> <p><b>FILTER PACK</b>                      Interval: 113' - 126'                      Type: 20/30 Sand                      Quantity: 6 Bags</p> <p><b>FILTER PACK SEAL</b>                      Interval: 109.8' - 113'                      Type: Pel Plug                      Quantity: 5gal bucket</p> <p><b>ANNULUS SEAL</b>                      Interval: 0' - 109.8'                      Type: Cement-Bentonite                      Quantity: 250lbs Cement, 15lbs Bentonite, 30gal Water</p> <p><b>WELL COMPLETION</b>                      Pad: 4' x 4'                      Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b>                      Soil Drill: Roto Sonic                      Rock Drill: Roto Sonic</p>
420		Rock sample collected 118.0'-118.5' (Continued)	BR		12	5.50 10.00			
125		Boring completed at 126.00 ft							
415				417.2					
130									
410									
135									
405									
140									
400									
145									
395									
150									
390									
155									
385									
160									

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: C. Hall

GA INSPECTOR: B. Steele, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-52

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 77.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: GSI CC Crawler  
 DATE STARTED: 3/17/20  
 DATE COMPLETED: 3/17/20

NORTHING: 1,122,822.91  
 EASTING: 2,403,622.69  
 GS ELEVATION: 519.4  
 TOC ELEVATION: 521.84 ft

DEPTH W.L.: 32.50'  
 ELEVATION W.L.: 489.12'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 10:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 9.50 Hydro-vac for utility clearance							<p><b>WELL CASING</b> Interval: 0' - 67' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 67' - 77' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 65' - 77' Type: #6 Sand Quantity: 3 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 61.5' - 65' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 61.5' Type: Cement-Bentonite Quantity: 554.4lbs Cement, 20lbs Bentonite, 70gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
5	515								
10	510	9.50 - 13.70 ML, sandy SILT, low plasticity, fine sand, reddish brown, plagioclase-biotite, biotite gneiss parent, non-cohesive, moist, loose. Residual soil	ML		509.9 9.50				
15	505	13.70 - 30.00 ML, sandy SILT, low plasticity, fine sand, bronze to light yellowish brown, plagioclase, increasing weathering of biotite, relict foliation, biotite gneiss parent, non-cohesive, moist to dry, loose. SAPROLITE			505.7 13.70	1	ROTO 7.80 SONIC 9.50		
20	500		ML						
25	495					2	ROTO 10.00 SONIC 10.00		
30	490	30.00 - 33.00 SP, SAND, fine to medium grained, light yellowish-brown, plagioclase-quartz, non-cohesive, moist, loose.	SP		489.4 30.00				
35	485	33.00 - 34.00 SP, SAND, medium grained, white, quartz-plagioclase-pegmatite, non-cohesive, moist, dense to loose. SAPROLITE	SP		486.4 33.00				
		34.00 - 37.00 ML, sandy SILT, low plasticity, fine sand, grey to yellowish brown, plagioclase-quartz-illite-biotite, relict foliation biotite gneiss parent, non-cohesive, moist, compact. SAPROLITE	ML		485.4 34.00	3	ROTO 9.60 SONIC 10.00		
40	480	37.00 - 39.00 SP, SAND, medium grained with some coarse gravel, white, quartz-plagioclase-pegmatite, non-cohesive, moist, dense to loose. SAPROLITE	SP		482.4 37.00				
		Log continued on next page	SM		480.4 39.00	4	ROTO SONIC		

BOREHOLE RECORD PLANT SCHERER CRG INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Jimmy Hall

GA INSPECTOR: H. Brissey  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-52

SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 77.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: GSI CC Crawler  
 DATE STARTED: 3/17/20  
 DATE COMPLETED: 3/17/20

NORTHING: 1,122,822.91  
 EASTING: 2,403,622.69  
 GS ELEVATION: 519.4  
 TOC ELEVATION: 521.84 ft

DEPTH W.L.: 32.50'  
 ELEVATION W.L.: 489.12'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 10:25

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

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		
40		39.00 - 49.00 SM, SILTY SAND, fine sand, low plasticity, light olive grey to light olive brown, quartz-illite-plagioclase, relict foliation biotite gneiss parent, non-cohesive, moist, dense to loose. SAPROLITE <i>(Continued)</i>	SM						<p><b>WELL CASING</b> Interval: 0' - 67' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 67' - 77' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 65' - 77' Type: #6 Sand Quantity: 3 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 61.5' - 65' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 61.5' Type: Cement-Bentonite Quantity: 554.4lbs Cement, 20lbs Bentonite, 70gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
45	475				4	ROTO SONIC	10.00 10.00		
50	470	49.00 - 54.00 SC, CLAYEY SAND, medium to high plasticity, fine grained sand, grey with trace dark yellowish orange, plagioclase-illite, no structure observed, cohesive, W > PL, firm.	SC				470.4 49.00		
55	465	54.00 - 77.00 SM, SILTY SAND, fine sand, low plasticity, blueish grey to greenish black, quartz-illite-biotite-hornblende/biotite interlayered. Biotite amphibolite gneiss with hornblende gneiss at 74' and 76', some relict foliation, non-cohesive, moist, dense to loose. SAPROLITE			5	ROTO SONIC	7.50 10.00		
60	460								
65	455		SM		6	ROTO SONIC	10.00 10.00		
70	450				7	ROTO SONIC	10.50 8.00		
75	445								
80	440	Boring completed at 77.00 ft					442.4		

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Jimmy Hall

GA INSPECTOR: H. Brissey  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# RECORD OF BOREHOLE PZ-53

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 45.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/18/20  
 DATE COMPLETED: 3/19/20

NORTHING: 1,121,932.34  
 EASTING: 2,404,813.43  
 GS ELEVATION: 513.6  
 TOC ELEVATION: 516.64 ft

DEPTH W.L.: 26.20'  
 ELEVATION W.L.: 490.29'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:55

BOREHOLE RECORD: PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ - PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 8.00 Hydro-vac for utility clearance  Soil type based on visual inspection of hole and surface soil - CL, silty CLAY, residual soil.								<p><b>WELL CASING</b> Interval: 0' - 35' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 35' - 45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 32' - 35' Type: #1 Sand Quantity: 3 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 27' - 32' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 27' Type: Cement-Bentonite Quantity: 450lbs Cement, 17lbs Bentonite, 45gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
5.10			CL		505.6					
8.00		8.00 - 13.00 CL, SILTY CLAY, 7.5 YR 5/8 strong brown, no relict foliation, deeply weathered biotite-hornblende gneiss. Residual soil.	CL		8.00	1	ROTO 7.00 SONIC 7.00			
13.00		13.00 - 17.00 ML, CLAYEY SILT, strong brown, minor relict foliation, deeply weathered biotite-hornblende gneiss. Residual soil.	ML		13.00					
17.00		17.00 - 20.00 ML, CLAYEY SILT, 7.5 YR 5/8 strong brown, very weathered hornblende gneiss, relict foliation.	ML		17.00					
20.00		20.00 - 25.00 ML, CLAYEY SILT, trace fine sand, 7.5 YR 5/4 weak red to pink to 10 YR 5/4 yellowish brown, deeply weathered biotite gneiss, weak relict foliation, cohesive, soft to firm, moist, deeply weathered quartz-muscovite-plagioclase-biotite, fine to medium grained minerals weathered to clay and silty. SAPROLITE.	ML		20.00	2	ROTO 10.00 SONIC 10.00			
25.00		25.00 - 32.00 ML, CLAYEY SILT, trace fine sand, 7.5 YR 5/4 weak red to pink 10 YR 5/4 yellowish brown, deeply weathered biotite gneiss, foliation present, deeply weathered quartz-muscovite-plagioclase-hornblende-biotite, cohesive, soft to firm, moist to wet, W > PL. SAPROLITE.	ML		25.00					
32.00		32.00 - 35.00 No recovery			32.00					
35.00		35.00 - 45.00 ML, CLAYEY SILT, some fine to very fine sand, strong brown 7.5 YR 5/8 to orange brown, lenses of light olive green, very weathered biotite-hornblende gneiss, foliation present, cohesive, firm to stiff, moist, moist to wet at 36', contact between biotite gneiss and biotite hornblende gneiss.	ML		35.00	4	ROTO 6.00 SONIC 10.00			

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-53

SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 45.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/18/20  
 DATE COMPLETED: 3/19/20

NORTHING: 1,121,932.34  
 EASTING: 2,404,813.43  
 GS ELEVATION: 513.6  
 TOC ELEVATION: 516.64 ft

DEPTH W.L.: 26.20'  
 ELEVATION W.L.: 490.29'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40		35.00 - 45.00 ML, CLAYEY SILT, some fine to very fine sand, strong brown 7.5 YR 5/8 to orange brown, lenses of light olive green, very weathered biotite-hornblende gneiss, foliation present, cohesive, firm to stiff, moist, moist to wet at 36', contact between biotite gneiss and biotite hornblende gneiss. <i>(Continued)</i>	ML			4	ROTO 6.00 SONIC 10.00			<p><b>WELL CASING</b> Interval: 0' - 35' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 35' - 45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 32' - 35' Type: #1 Sand Quantity: 3 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 27' - 32' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 27' Type: Cement-Bentonite Quantity: 450lbs Cement, 17lbs Bentonite, 45gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
45		Boring completed at 45.00 ft			468.6					
45										
465										
50										
55										
60										
65										
70										
75										
80										

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-54

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 45.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/19/20  
 DATE COMPLETED: 3/19/20

NORTHING: 1,121,509.71  
 EASTING: 2,406,555.15  
 GS ELEVATION: 490.2  
 TOC ELEVATION: 492.96 ft

DEPTH W.L.: 29.00'  
 ELEVATION W.L.: 463.62'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0	490	0.00 - 10.00 Hydro-vac for utility clearance.							<b>WELL CASING</b> Interval: 0' - 35' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 35' - 45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 33' - 45' Type: #1 Sand Quantity: 4 Bags  <b>FILTER PACK SEAL</b> Interval: 29' - 33' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 29' Type: Cement-Bentonite Quantity: 500lbs Cement, 17lbs Bentonite, 45gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
5	485							Grout -	
10	480	10.00 - 20.80 CL, CLAY, red brown, soft to moist, low plasticity, minor muscovite and vermiculite, W < PL.	CL		480.2 10.00	1	ROTO 1.90 SONIC 5.00	Riser -	
15	475		CL						
20	470	20.80 - 23.00 CL, CLAY with trace to some fine sand, low plasticity, W < PL, wet outside of core, moist inside of core, firm.	CL		469.4 20.80	2	ROTO 4.20 SONIC 10.00		
25	465	23.00 - 24.00 CL, CLAY, red brown, soft to moist, low plasticity, minor muscovite and vermiculite, W < PL. 24.00 - 31.00 CL, CLAY with trace to some silt, ocherish brown, moderate plasticity, W ~ PL, moist, soft to firm.	CL		467.2 23.00 466.2 24.00				
30	460		ML					Bentonite -	
35	455	31.00 - 45.00 ML, SILT with trace to some fine to medium sand, brown to bronze, non-plastic, dry to wet, W < PL, quartz-plagioclase-biotite.	ML		459.2 31.00	3	ROTO 10.00 SONIC 10.00		
40			ML			4	ROTO 8.20 SONIC 10.00	Sand -	

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-54

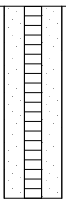
SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 45.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/19/20  
 DATE COMPLETED: 3/19/20

NORTHING: 1,121,509.71  
 EASTING: 2,406,555.15  
 GS ELEVATION: 490.2  
 TOC ELEVATION: 492.96 ft

DEPTH W.L.: 29.00'  
 ELEVATION W.L.: 463.62'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:45

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40	450	31.00 - 45.00 ML, SILT with trace to some fine to medium sand, brown to bronze, non-plastic, dry to wet, W < PL, quartz-plagioclase-biotite. <i>(Continued)</i>	ML			4	ROTO 8.20 SONIC 10.00		0.010" Slotted - Screen 	<p><b>WELL CASING</b>                      Interval: 0' - 35'                      Material: Sch 40 PVC                      Diameter: 2"                      Joint Type: Threaded</p> <p><b>WELL SCREEN</b>                      Interval: 35' - 45'                      Material: U-Pack Screen                      Diameter: 2"                      Slot Size: 0.010"                      End Cap: 3"</p> <p><b>FILTER PACK</b>                      Interval: 33' - 45'                      Type: #1 Sand                      Quantity: 4 Bags</p> <p><b>FILTER PACK SEAL</b>                      Interval: 29' - 33'                      Type: Pel Plug                      Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b>                      Interval: 0' - 29'                      Type: Cement-Bentonite                      Quantity: 500lbs Cement,                      17lbs Bentonite, 45gal Water</p> <p><b>WELL COMPLETION</b>                      Pad: 4' x 4'                      Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b>                      Soil Drill: Roto Sonic                      Rock Drill: Roto Sonic</p>
45	445	Boring completed at 45.00 ft								
50	440									
55	435									
60	430									
65	425									
70	420									
75	415									
80										

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Vern Olson

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-55

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 35.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/20/20  
 DATE COMPLETED: 3/20/20

NORTHING: 1,121,931.60  
 EASTING: 2,409,132.43  
 GS ELEVATION: 444.2  
 TOC ELEVATION: 447.21 ft

DEPTH W.L.: 20.00'  
 ELEVATION W.L.: 426.98'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:10

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		
0		0.00 - 10.00 Hydro-vac for utility clearance.  Logged by visual inspection and surface soil. CL, SILTY CLAY, 5 YR 5/8 yellowish red, no relict foliation, deeply weathered hornblende-biotite gneiss.	CL						<p><b>WELL CASING</b> Interval: 0' - 26' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 26' - 36' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 24' - 36' Type: #1 Sand Quantity: 3.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 18.5' - 24' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 18.5' Type: Cement-Bentonite Quantity: 300lbs Cement, 15lbs Bentonite, 35gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
440									
5									
435									
10		10.00 - 23.50 CL, SILTY CLAY, 5 YR 5/8 yellowish red, little to no relict foliation, deeply weathered hornblende-biotite gneiss. Residual soil.	CL		434.2				
15					10.00	1	ROTO 3.00 SONIC 5.00		
430									
20									
425									
25		23.50 - 25.00 ML, SILT, weathered amphibolite, hornblende rich, gley 2 4/1 dark greenish grey. Saprolite.	ML		420.7				
25		25' driller noted top of transitionally weathered rock, hard rock encountered interlayered with weathered saprolite.			419.2				
30		25.00 - 36.00 Transitionally weathered rock, interlayered unweathered rock and saprolite, poor recovery (saprolite washed out).	TWR		25.00				
415									
410									
35									
405		Boring completed at 35.00 ft			408.2				
40					36.00				

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-56

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 46.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/19/20  
 DATE COMPLETED: 3/19/20

NORTHING: 1,123,524.68  
 EASTING: 2,409,037.21  
 GS ELEVATION: 430.8  
 TOC ELEVATION: 433.68 ft

DEPTH W.L.: 36.60'  
 ELEVATION W.L.: 396.96'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0	430	0.00 - 10.00 Hydro-vac for utility clearance						<p>Grout -</p> <p>Riser -</p>	<p><b>WELL CASING</b> Interval: 0' - 35.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 35.75' - 45.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 33' - 46' Type: #1 Sand Quantity: 4 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 30' - 33' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 30' Type: Cement Quantity: 600lbs Cement, 70gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
5	425								
10	420	10.00 - 18.80 SP, SAND, medium to some coarse and some fine, well sorted, primarily quartz, Na-plagioclase, biotite throughout, increased biotite content 12.5'-13.5', deeply weathered biotite gneiss, relict foliation present in some 1" pieces, dry to moist. Saprolite.	SP		420.8 10.00	1	ROTO 6.00 SONIC 6.00		
15	415								
20	410	18.80 - 20.60 ML, CLAYEY SILT, very fine sand, weathered hornblende gneiss, some relict foliation, gley 1 4/1 dark greenish grey, dry to moist.	ML		412 18.80	2	ROTO 5.00 SONIC 5.00		
		19.5-20.6 pulverized predominantly Na-plagioclase layer, 2.5 Y 7/3 pale brown.			410.2				
		20.60 - 21.00 TWR, weathered BIOTITE GNEISS, very dark grey to black, medium grained.	TWR						
		21.00 - 34.00 TWR, weathered BIOTITE GNEISS, slight to moderate oxidation throughout. oxidation staining at 28', fracture 30'-30.5'	TWR			3	ROTO 4.00 SONIC 5.00		
25	405								
30	400					4	ROTO 8.00 SONIC 10.00		
35	395	34.00 - 36.00 Core barrel drop in soft zone, no recovery.			396.8 34.00				
		36.00 - 46.00 BIOTITE GNEISS, fine to medium grained, hornblende-quartz-plagioclase-biotite.	BR		394.8 36.00	5	ROTO 8.50 SONIC 10.00		
40									

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-56

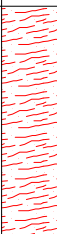
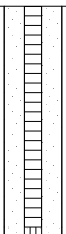
SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 46.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/19/20  
 DATE COMPLETED: 3/19/20

NORTHING: 1,123,524.68  
 EASTING: 2,409,037.21  
 GS ELEVATION: 430.8  
 TOC ELEVATION: 433.68 ft

DEPTH W.L.: 36.60'  
 ELEVATION W.L.: 396.96'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
40	390	36.00 - 46.00 BIOTITE GNEISS, fine to medium grained, hornblende-quartz-plagioclase-biotite. <i>(Continued)</i>	BR		384.8	5	ROTO 8.50 SONIC 10.00	 <p style="font-size: small;">0.010" Slotted Screen</p>	<p><b>WELL CASING</b> Interval: 0' - 35.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 35.75' - 45.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 33' - 46' Type: #1 Sand Quantity: 4 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 30' - 33' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 30' Type: Cement Quantity: 600lbs Cement, 70gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
		Boring completed at 46.00 ft							

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-57

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 59.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: GSI CC Crawler  
 DATE STARTED: 3/18/20  
 DATE COMPLETED: 3/19/20

NORTHING: 1,123,405.64  
 EASTING: 2,407,361.88  
 GS ELEVATION: 436.4  
 TOC ELEVATION: 439.51 ft

DEPTH W.L.: 33.60'  
 ELEVATION W.L.: 405.66'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:30

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		
0	435	0.00 - 5.00 Hand auger for utility clearance.						<p>Grout -</p> <p>Riser -</p>	<p><b>WELL CASING</b> Interval: 0' - 49' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 49' - 59' Material: U-Pack Prepack Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 46' - 59' Type: #6 Sand Quantity: 3 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 43' - 46' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 43' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 10lbs Bentonite, 35gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
5	430	5.00 - 13.00 ML, sandy SILT, low PL, fine sand, dry - 2/5 Y 6/3 light yellowish brown, wet - gley G1 greenish grey, plagioclase-quartz-biotite weathered to illite, relic foliation, non-cohesive, dry to moist, dense. SAPROLITE.	ML		431.4 5.00	1	ROTO 7.00 SONIC 4.00		
10	425	13.00 - 15.00 ML, sandy SILT, low PL, fine sand, dry - 2.5 Y 5/2 greyish brown, wet - gleu 1 4/1 very dark greenish grey, quartz-plagioclase-biotite, hornblende gneiss parent rock, non-cohesive, dry to moist, dense. SAPROLITE.	ML		423.4 13.00	2	ROTO 10.00 SONIC 10.00		
15	420	15.00 - 18.00 ML, sandy SILT, low PL, fine sand, dry - 2/5 Y 6/3 light yellowish brown, wet - gley G1 greenish grey, plagioclase-quartz-biotite weathered to illite, relic foliation, non-cohesive, dry to moist, dense. SAPROLITE.	ML		421.4 15.00				
20	415	18.00 - 19.00 ML, sandy SILT, low PL, fine sand, dry - 2.5 Y 5/2 greyish brown, wet - gleu 1 4/1 very dark greenish grey, quartz-plagioclase-biotite, hornblende gneiss parent rock, non-cohesive, dry to moist, dense. SAPROLITE.	ML		418.4 18.00 417.4 19.00				
25	410	19.00 - 23.00 Transitionally weathered rock, highly weathered fracture zone, weakly foliated, very dark greenish grey, plagioclase-illite-hornblende amphibolite GNEISS.	TWR		413.4 23.00	3	ROTO 4.50 SONIC 10.00		
30	405	23.00 - 30.10 Transitionally weathered rock, moderately weathered oxidation throughout, well foliated, grey and white medium to coarse grained, strong, quartz-plagioclase-biotite/illite BIOTITE GNEISS.	TWR		406.3 30.10				
35	400	30.10 - 33.00 Transitionally weathered rock, highly weathered weakly foliated, porous, dark blue grey, fine to medium grained, weak, fracture zone 32'-33', plagioclase-illite hornblende/amphibolite GNEISS.	TWR		403.4	4	ROTO 8.20 SONIC 10.00		
40		33.10 - 40.00 Transitionally weathered rock, slightly to moderately weathered, foliated, grey and white, fine to medium grained, very strong, quartz-plagioclase BIOTITE GNEISS.	TWR		396.4	5	ROTO 9.00 SONIC 10.00		

Log continued on next page

BOREHOLE RECORD PLANT SCHERER CRG INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Jimmy Hall

GA INSPECTOR: H. Brissey  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# RECORD OF BOREHOLE PZ-57

SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 59.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: GSI CC Crawler  
 DATE STARTED: 3/18/20  
 DATE COMPLETED: 3/19/20

NORTHING: 1,123,405.64  
 EASTING: 2,407,361.88  
 GS ELEVATION: 436.4  
 TOC ELEVATION: 439.51 ft

DEPTH W.L.: 33.60'  
 ELEVATION W.L.: 405.66'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 9:30

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		
40	395	40.00 - 41.20 Transitionally weathered rock, moderately weathered, weakly foliated, dark blue grey, fine grained, weak to medium strength, plagioclase-illite/biotite hornblende GNEISS.	TWR	40.00 395.2 41.20					<p><b>WELL CASING</b> Interval: 0' - 49' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 49' - 59' Material: U-Pack Prepack Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 46' - 59' Type: #6 Sand Quantity: 3 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 43' - 46' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 43' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 10lbs Bentonite, 35gal water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
45	390	41.20 - 59.00 Transitionally weathered rock, moderately weathered to fresh (50'-59'), well foliated, grey and white, medium to coarse grained, very strong, fracture zone 43.5'-45.5', quartz-plagioclase BIOTITE GNEISS.	TWR		5	ROTO 9.00 SONIC 10.00			
50	385				6	ROTO 8.70 SONIC 10.00			
55	380								
60	375	Boring completed at 59.00 ft			377.4				
65	370								
70	365								
75	360								
80									

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Jimmy Hall

GA INSPECTOR: H. Brissey  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-58

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 46.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/16/20  
 DATE COMPLETED: 3/16/20

NORTHING: 1,123,299.43  
 EASTING: 2,405,207.09  
 GS ELEVATION: 489.3  
 TOC ELEVATION: 492.21 ft

DEPTH W.L.: 39.60'  
 ELEVATION W.L.: 452.09'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 10:05

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		
0		0.00 - 11.50 (0'-10') Hydro-vac for utility clearance.  (10'-11.5') Core loss.							<b>WELL CASING</b> Interval: 0' - 36' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 36' - 46' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 33.5' - 46' Type: #1 Sand Quantity: 5 Bags  <b>FILTER PACK SEAL</b> Interval: 30.5' - 33.5' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 30.5' Type: Cement-Bentonite Quantity: 277lbs Cement, 10lbs Bentonite, 30gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
485									
5									
10									
15		11.50 - 13.50 CL, CLAY with trace fine sand, red brown, low to medium PL, W < PL, moist, soft to firm, vermiculite after biotite.	CL		477.8 11.50	1	ROTO 4.50 SONIC 6.00		
15		13.50 - 20.00 SM, SILTY SAND with trace clay and gravels, yellow brown, non PL, W < PL, dry to moist, loose.	SM		475.8 13.50				
20		20.00 - 21.00 ML, SILT with trace sand and clay, soft, moist, non PL, W < PL, increased mica content, red-brown.	ML		469.3 20.00	2	ROTO 10.00 SONIC 10.00		
25		21.00 - 26.00 SM, SILTY SAND with trace gravels, light to dark green with brownish weathered rhine, dry to moist, W < PL, loose, ultramafic.	SM		468.3 21.00				
30		26.00 - 34.00 SP, SAND, fine grain with trace to some silt, uniform graded, light to dark green to tan, compact.	SP		463.3 26.00	3	ROTO 9.20 SONIC 10.00		
35		34.00 - 36.00 ML, sandy SILT to some sand, light green with brown, dry to moist, non to low PL, W < PL, loose.	ML		455.3 34.00				
40		36.00 - 46.00 SP-SM, SAND to SILTY SAND, fine to medium with some silt, trannish brown with light green hue, non to low PL, wet, W < PL, loose to compact.	SP-SM		453.3 36.00	4	ROTO 10.00 SONIC 10.00		

BOREHOLE RECORD PLANT SCHERER CRG INVESTIGATION BORING LOGS. SURVEY UPDATED (1).GPI. PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-58

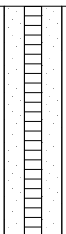
SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 46.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 3/16/20  
 DATE COMPLETED: 3/16/20

NORTHING: 1,123,299.43  
 EASTING: 2,405,207.09  
 GS ELEVATION: 489.3  
 TOC ELEVATION: 492.21 ft

DEPTH W.L.: 39.60'  
 ELEVATION W.L.: 452.09'  
 DATE W.L.: 3/31/20  
 TIME W.L.: 10:05

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40		36.00 - 46.00 SP-SM, SAND to SILTY SAND, fine to medium with some silt, trannish brown with light green hue, non to low PL, wet, W < PL, loose to compact. <i>(Continued)</i>	SP-SM			4	ROTO SONIC	-10.00 10.00		<p><b>WELL CASING</b> Interval: 0' - 36' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 36' - 46' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 33.5' - 46' Type: #1 Sand Quantity: 5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 30.5' - 33.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 30.5' Type: Cement-Bentonite Quantity: 277lbs Cement, 10lbs Bentonite, 30gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
445		Boring completed at 46.00 ft			443.3					
45										
44										
50										
440										
55										
435										
55										
430										
60										
425										
65										
420										
70										
415										
75										
410										
80										

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Tom Ardito

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-59D

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 69.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 3/26/20  
 DATE COMPLETED: 3/27/20

NORTHING: 1,125,229.89  
 EASTING: 2,407,668.93  
 GS ELEVATION: 382.9  
 TOC ELEVATION: 385.86 ft

DEPTH W.L.: 7.50'  
 ELEVATION W.L.: 378.13"  
 DATE W.L.: 4/7/2020  
 TIME W.L.: 14:20

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES		MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.		
0		0.00 - 10.00 Hydro-vac for utility clearance  Description from visual observation of hole and surface soil: CL SILTY CLAY, 7.5 YR 3/2 dark brown, cohesive, moist to wet, very soft, W -PL.						<b>WELL CASING</b> Interval: 0' - 54' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 54' - 69' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 52' - 64' Type: #1 Sand Quantity: 5 bags  <b>FILTER PACK SEAL</b> Interval: 49.7' - 52' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 49.7' Type: Cement-Bentonite Quantity: 900lbs Cement, 60lbs Bentonite, 120gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
380								
5								
375								
10				372.9				
		10.00 - 11.78 SP, SAND poorly graded, fine to coarse with some silt, gley 1 2.5/1 greenish black, primarily quartz-hornblende, some cobbles up to 2" diameter, weathered amphibolite. Residual soil/alluvium.	SP					
		11.78 - 27.00 ML, sandy CLAYEY SILT, very weathered amphibolite interlayered with biotite gneiss with varying amounts of biotite-plagioclase-quartz, 10 YR 4/3 brown to 5Y 4/3 olive, some relict foliation, moist, non-cohesive, very loose to dense. Saprolite		371.12				
370				11.78				
15					1	ROTO 9.00 SONIC 9.00		
365			ML					
20								
360					2	ROTO 8.00 SONIC 8.00		
25								
355		27.00: Driller noted top of rock at 27' 27.01 - 30.00 AMPHIBOLITE/HORNBLende GNEISS, quartz-plagioclase-biotite-hornblende with trace pyrite < 1mm diameter unweathered, fine to medium grained, well foliated	BR					
30				355.9				
35		30.00 - 39.00 AMPHIBOLITE/HORNBLende GNEISS, fracture/oxidized zone at ~38', moderate to strong, foliation, fine to medium grained, unweathered, competent, greenish black with white.		352.9				
350			BR	30.00				
345		38.00: Fracture/oxidized zone		343.9				
40			BR	39.00	5	ROTO 9.00 SONIC 10.00		

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-59D

SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 69.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 3/26/20  
 DATE COMPLETED: 3/27/20

NORTHING: 1,125,229.89  
 EASTING: 2,407,668.93  
 GS ELEVATION: 382.9  
 TOC ELEVATION: 385.86 ft

DEPTH W.L.: 7.50'  
 ELEVATION W.L.: 378.13"  
 DATE W.L.: 4/7/2020  
 TIME W.L.: 14:20

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE			REC
40		39.00 - 59.00 AMPHIBOLITE/HORNBLLENDE GNEISS, moderate to strong foliation, pyrite-quartz-plagioclase-biotite-hornblende, greenish black with white, competent to slightly weathered. <i>(Continued)</i> 41.00: 41-42' Fracture/oxidized zones	BR						<p><b>WELL CASING</b> Interval: 0' - 54' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 54' - 69' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 52' - 64' Type: #1 Sand Quantity: 5 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 49.7' - 52' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 49.7' Type: Cement-Bentonite Quantity: 900lbs Cement, 60lbs Bentonite, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>	
340		44.00: 44-45" Fracture/oxidized zones				5	ROTO SONIC			9.00 10.00
45		46.60: fracture/oxidized zones								
335		48.00: 48-50' Fracture/oxidized zones								
50										
330		53.00: fracture/oxidized zones			6	ROTO SONIC	10.00 10.00			
55										
325										
60		59.00: fracture/oxidized zones 59.01 - 69.00 BIOTITE GNEISS, moderate to well foliation, noticeably more competent than 49'-59' run, plagioclase-hornblende-quartz-biotite, perdominately fine-grained. 61.50: minor oxidation staining at 61.5'	BR							
320										
65		66.00: 66-67' interlayers of hornblende-rich rock				7	ROTO SONIC	9.00 10.00		
315		68.00: "soft or fractured" at 68' (not recovered for verification)								
70		Boring completed at 69.00 ft								
310										
75										
305										
80										

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-59S

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 24.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: GSI CC Crawler  
 DATE STARTED: 3/19/20  
 DATE COMPLETED: 3/20/20

NORTHING: 1,125,213.65  
 EASTING: 2,407,658.45  
 GS ELEVATION: 382.8  
 TOC ELEVATION: 385.93 ft

DEPTH W.L.: 3.23'  
 ELEVATION W.L.: 383.48'  
 DATE W.L.: 3/24/2020  
 TIME W.L.: 14:30

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC			
0		0.00 - 7.00 Hand auger for utility clearance.								<p><b>WELL CASING</b> Interval: 0' - 14' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 14' - 24' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 11.5' - 24' Type: #6 Sand Quantity: 3 bags</p> <p><b>FILTER PACK SEAL</b> Interval: 7' - 11.5' Type: Pel-Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 7' Type: Cement-Bentonite Quantity: 46.2lbs Cement, 2lbs Bentonite, 10gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>	
380								Grout -			
5								Riser -			
375		7.00 - 8.75 SC, CLAYEY SAND, high PL, fine to medium sand increasing with depth, red brown to greenish grey, quartz - biotite gneiss, cohesive, W>PL to W-PL, firm. Residual soil.	SC		375.8 7.00	1	ROTO 6.00 SONIC 2.00	Bentonite -			
10		8.75 - 11.75 SP, SAND, fine to medium grained, greenish grey, illite-hornblende/amphibolite-quartz, non-cohesive, wet, loose.	SP		8.75						
370		11.75 - 19.00 ML, sandy SILT, low PL, fine sand, light yellowish brown, relict foliation, quartz-plagioclase-biotite weathered to illite/biotite gneiss, non-cohesive, moist, loose. SAPROLITE.	ML		371.05 11.75	2	ROTO 6.00 SONIC 10.00	#6 Sand -			
15								0.010" Slotted Screen			
365		19.00 - 20.50 SP, SAND, medium to coarse grained, trace coarse gravel, greenish grey, hornblende-plagioclase-quartz, non-cohesive, wet to moist, loose.	SP		363.8 19.00	3	ROTO 6.50 SONIC 5.00				
20		20.50 - 21.00 ML, sandy SILT, low PL, fine sand, light yellowish brown, relict foliation, quartz-plagioclase-biotite weathered to illite/biotite gneiss, non-cohesive, moist, loose. SAPROLITE.	ML		362.3 21.00						
360		21.00 - 22.00 SP, SAND, fine to medium grained, greenish grey, illite-hornblende/amphibolite-quartz, non-cohesive, wet, loose.	SP		361.8 22.00						
25		22.00 - 24.00 ML, sandy SILT, low PL, fine sand, light yellowish brown, relict foliation, quartz-plagioclase-biotite weathered to illite/biotite gneiss, non-cohesive, moist, loose. SAPROLITE.	ML		360.8 22.00						
355		Boring completed at 24.00 ft			358.8						
30											
350											
345											
40											

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Jimmy Hall

GA INSPECTOR: H. Brissey  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-60D

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 100.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 3/28/20  
 DATE COMPLETED: 3/29/20

NORTHING: 1,124,410.72  
 EASTING: 2,408,242.87  
 GS ELEVATION: 386.4  
 TOC ELEVATION: 389.34 ft

SHEET 1 of 3  
 DEPTH W.L.: 1.3'  
 ELEVATION W.L.: 387.78'  
 DATE W.L.: 3/30/2020  
 TIME W.L.: 8:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES		MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	TYPE		
0	385	0.00 - 5.00 CL, SILTY CLAY, 25 YR 4/6 Red, deeply weathered biotite gneiss, cohesive, w>PL, moist, very soft, very fine mica flakes, residual soil	CL		381.4		Grout -           Riser -	<b>WELL CASING</b> Interval: 0' - 69.4' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 69.4' - 99.7' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 66.6' - 99.7' Type: #1 Sand Quantity: 8.5 Bags  <b>FILTER PACK SEAL</b> Interval: 62.3' - 66.6' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 66.6' Type: Cement-Bentonite Quantity: 1,050lbs Cement, 42lbs Bentonite, 140gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
5	380	5.00 - 10.00 ML, CLAYEY SILT, 7.5 YR 6/8 reddish yellow, mottled, deeply weathered, biotite gneiss, cohesive, some very fine sand, coarse gravel, plagioclase, w-PL	ML		5.00			
10	375	10.00 - 13.00 CL, SILTY CLAY, trace very fine to fine sand, 5YR 5/8 yellowish red, deeply weathered biotite gneiss, mottled, very fine mica flakes, cohesive, moist, w-PL, very soft to soft, med plasticity, residual soil	CL		376.4			
15	370	13.00 - 20.00 ML, CLAYEY SILT, some sand, vf to fine sand, faint relict foliation, yellowish red to red to light brown layer of hornblende gneiss, moist, cohesive, W<PL, slightly plastic, soft to firm	ML		373.4	1 ROTO 10.00 SONIC 10.00		
20	365	20.00 - 30.00 ML, SILT, some clay and sand, very fine to fine sand, 10 YR 5/3 brown, very weathered biotite gneiss, very weathered muscovite-biotite-plagioclase, moist, non-cohesive, loose, residual soil, SAPROLITE, some foliation visible throughout, very weathered hornblende gneiss near bottom of run	ML		366.4	2 ROTO 8.50 SONIC 10.00		
30	355	30.00 - 37.00 ML, sandy CLAYEY SILT, some relict foliation present interlayered biotite hornblende gneiss. SAPROLITE	ML		356.4	3 ROTO 10.00 SONIC 10.00		
40	350	37.00 - 40.00 Transitionally weathered rock, slightly weathered to weathered biotite gneiss	TWR		349.4			
		Log continued on next page			346.4			

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ - PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-60D

SHEET 2 of 3

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 100.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 3/28/20  
 DATE COMPLETED: 3/29/20

NORTHING: 1,124,410.72  
 EASTING: 2,408,242.87  
 GS ELEVATION: 386.4  
 TOC ELEVATION: 389.34 ft

DEPTH W.L.: 1.3'  
 ELEVATION W.L.: 387.78'  
 DATE W.L.: 3/30/2020  
 TIME W.L.: 8:00

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40	345	40.00 - 45.50 Transitionally weathered rock, weathered to slightly weathered biotite gneiss at 40'-44'	TWR	[Blue triangles]	40.00	4	ROTO 6.00 SONIC 8.00		Bentonite -	
		brown quartz-plagioclase-hornblende-biotite, slightly weathered hornblende gneiss 44'-45.5', dry to moist, foliation in cobbled size								
45	340	45.50 - 52.00 BIOTITE GNEISS interlayered with HORNBLLENDE GNEISS, fine grained, well foliated, primarily biotite gneiss	BR	[Red wavy lines]	340.9	5	ROTO 6.00 SONIC 6.00		Sand -	
		Biotite slight oxidation zone at 46', trace <1mm-2mm red garnets throughout  slight oxidation zone at 50.5'  Migmatitic texture at 51'-52'			45.50					
50	335	52.00 - 60.50 BIOTITE GNEISS, well foliated, greenish black and white layers, fine grained plagioclase-quartz-hornblende-biotite	BR	[Red wavy lines]	334.4	6	ROTO 7.00 SONIC 8.00		Sand -	
					52.00					
55	330	60.50 - 70.00 HORNBLLENDE GNEISS, less quartz than above, fine grained, med grained biotite gneiss, greenish black and white, no fracture/oxidation observed, trace pyrite, plagioclase-quartz-hornblende-biotite	BR	[Red wavy lines]	325.9	7	ROTO 11.00 SONIC 10.00		Sand -	
					60.50					
60	325	70.00 - 80.00 BIOTITE GNEISS, fine to medium grained, greenish black to black and white, well foliated, migmatitic texture in some intervals with ptygmatic folds, plagioclase-quartz-hornblende-biotite, no oxidation zones observed	BR	[Red wavy lines]	316.4	8	ROTO 10.00 SONIC 10.00		Sand -	
					70.00					
65	320				306.4				0.010" Slotted Screen	
70	315									
75	310									
80	305									

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# RECORD OF BOREHOLE PZ-60D

SHEET 3 of 3

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 100.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 3/28/20  
 DATE COMPLETED: 3/29/20

NORTHING: 1,124,410.72  
 EASTING: 2,408,242.87  
 GS ELEVATION: 386.4  
 TOC ELEVATION: 389.34 ft

DEPTH W.L.: 1.3'  
 ELEVATION W.L.: 387.78'  
 DATE W.L.: 3/30/2020  
 TIME W.L.: 8:00

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
80	305	80.00 - 90.00 BIOTITE GNEISS, fine to medium grained, coarse grained migmatitic texture at 84'-85'  Possible fracture at 87'-87.5'  very slight oxidation staining on break at a 60 degree to vertical  trace pyrite-plagioclase-quartz-hornblende-biotite, well foliated	BR	[Red hatched pattern]	80.00	9	ROTO 8.00 SONIC 10.00			<p><b>WELL CASING</b>                      Interval: 0' - 69.4'                      Material: Sch 40 PVC                      Diameter: 2"                      Joint Type: Threaded</p> <p><b>WELL SCREEN</b>                      Interval: 69.4' - 99.7'                      Material: U-Pack Screen                      Diameter: 2"                      Slot Size: 0.010"                      End Cap: 3"</p> <p><b>FILTER PACK</b>                      Interval: 66.6' - 99.7'                      Type: #1 Sand                      Quantity: 8.5 Bags</p> <p><b>FILTER PACK SEAL</b>                      Interval: 62.3' - 66.6'                      Type: Pel Plug                      Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b>                      Interval: 0' - 66.6'                      Type: Cement-Bentonite                      Quantity: 1,050lbs Cement,                      42lbs Bentonite, 140gal Water</p> <p><b>WELL COMPLETION</b>                      Pad: 4' x 4'                      Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b>                      Soil Drill: Roto Sonic                      Rock Drill: Roto Sonic</p>
90	295	90.00 - 100.00 BIOTITE GNEISS, well foliated	BR	[Red hatched pattern]	296.4 90.00					
100	285	Boring completed at 100.00 ft			286.4					

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-60S

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 20.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 3/31/20  
 DATE COMPLETED: 3/31/20

NORTHING: 1,124,400.44  
 EASTING: 2,408,243.59  
 GS ELEVATION: 386.4  
 TOC ELEVATION: 389.88 ft

DEPTH W.L.: 6.8'  
 ELEVATION W.L.: 382.86'  
 DATE W.L.: 4/8/2020  
 TIME W.L.: 10:25

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0	385	0.00 - 2.00 CL, SILTY CLAY, 2.5 YR 3/4 dark reddish brown, deeply weathered biotite gneiss, no structure observed, some mica flakes, very fine, cohesive, moist, plastic, w<PL, RESIDUUM	CL	[Hatched]	384.4	1	ROTO SONIC	-10.00		<p><b>WELL CASING</b> Interval: 0' - 10' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 10' - 20' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 8' - 20' Type: #1 Sand Quantity: 3 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 5' - 8' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 5' Type: Cement-Bentonite Quantity: 200lbs Cement, 14lbs Bentonite, 30gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
		2.00 - 4.00 CL, SILTY CLAY, 2.5 YR 4/6 red, deeply weathered biotite gneiss, no structure observed, some mica flakes, very fine, cohesive, moist, plastic, w<PL, RESIDUUM	CL	[Hatched]	382.4					
5		4.00 - 5.50 CL, SILTY CLAY, 5 YR 4/6 yellowish red, deeply weathered biotite gneiss, slightly mottled, moist, plastic, w<PL, RESIDUUM	CL	[Hatched]	4.00					
	380	5.50 - 10.00 ML, CLAYEY SILT, cobble/gravel layer at 5.5' diameter up to 1.5", 5 YR 4/6 yellowish red, mottled, moist 5'-9', to wet 9'-10', non-cohesive, loose, w<PL, RESIDUUM	ML	[Vertical Lines]	5.50					
					376.4	2	ROTO SONIC	-10.00		
	375	10.00 - 12.50 ML, CLAYEY SILT, cobble/gravel layer at 5.5' diameter up to 1.5", 5 YR 4/6 yellowish red, mottled, very wet, non-cohesive, very loose, RESIDUUM	ML	[Vertical Lines]	10.00					
		12.50 - 20.00 ML, SILT, some clay, sandy silt at 14' - 16', mottled with relict foliations, varigated yellowish red to dark brown to brown, very weathered biotite gneiss, non-cohesive, loose to compact, non-plastic, moist to wet	ML	[Vertical Lines]	12.50					
					373.9	2	ROTO SONIC	-10.00		
	370				366.4					
		Boring completed at 20.00 ft				366.4			0.010" Slotted Screen	
	365									
	25									
	360									
	30									
	355									
	35									
	350									
	40									

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-61

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 50.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/10/20  
 DATE COMPLETED: 4/11/20

NORTHING: 1,122,537.21  
 EASTING: 2,408,531.43  
 GS ELEVATION: 436.8  
 TOC ELEVATION: 439.27 ft

DEPTH W.L.: 12.80'  
 ELEVATION W.L.: 426.37'  
 DATE W.L.: 4/13/2020  
 TIME W.L.: 14:10

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS. SURVEY UPDATED (1).GPJ. PIEDMONT.GDT 8/13/20

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		
0		0.00 - 10.00 Hydro-vac for utility clearance.							<p><b>WELL CASING</b> Interval: 0' - 39.45' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 39.45' - 49.45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 37.25' - 49.45' Type: #1 Sand Quantity: 3.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 33.8' - 37.25' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 33.8' Type: Cement-Bentonite Quantity: 900lbs Cement, 45lbs Bentonite, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
435									
5									
430									
10									
425		10.00 - 11.50 CL, SILTY CLAY, yellowish red, deeply weathered biotite gneiss, slightly plastic, no structure, cohesive, moist, very soft, w<PL, RESIDUUM	CL		426.8 10.00				
15		11.50 - 19.50 ML, CLAYEY SILT and SILT, yellowish brown, deeply weathered biotite gneiss, faint to no structure, plagioclase ad biotite rich, cohesive, soft, non-plastic, moist, w<PL, RESIDUUM	ML			1	ROTO 10.00 SONIC 10.00		
20		19.50 - 20.00 SM, SILTY SAND, yellowish brown, fine to coarse sand, slightly to moderately weathered biotite gneiss, quartz rich, non-cohesive, non-plastic, wet, w<PL, compact	SM		417.3 416.8				
25		20.00 - 21.00 SM, SILTY SAND, fine to medium sand, yellowish brown, very weathered biotite gneiss, cohesive, moist, loose to compact, non-plastic, SAPROLITE	SM		20.00 415.8				
30		21.00 - 24.00 ML, sandy SILT, very fine to fine sand, very plae brown, dry, non-cohesive, metagranitic, slight foliation, SAPROLITE	ML		412.8 24.00				
35		24.00 - 26.00 ML, SILT, weathered biotite gneiss, some relict foliation with clay lined slickenlines, moist, loose to compact, non-plastic, w<PL	ML		410.8 26.00				
40		26.00 - 32.00 ML, SILT, weathered amphibolite, olive grey, fine grained, slight to some relict foliation, moist, very stiff to hard, w<PL	ML			2	ROTO 10.00 SONIC 10.00		
405		32.00 - 35.00 ML, SILT, Transitionally weathered rock, very pale brown, metagranitic, slightly foliated, medium grained, slightly weathered, dry	TWR		404.8 32.00				
410		35.00 - 38.00 ML, sandy CLAYEY SILT, very weathered biotite gneiss, greyish brown, well foliated, fine to medium grained, moist	ML		401.8 35.00				
415		38.00 - 40.00 SP/SM, SAND to SILTY SAND, Transitionally weathered rock, weathered biotite gneiss, bottom is unweathered to slightly weathered	TWR		398.8 38.00				
420					396.8				

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



Log continued on next page

# RECORD OF BOREHOLE PZ-61

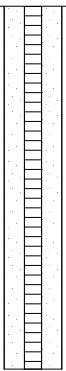
SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 50.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/10/20  
 DATE COMPLETED: 4/11/20

NORTHING: 1,122,537.21  
 EASTING: 2,408,531.43  
 GS ELEVATION: 436.8  
 TOC ELEVATION: 439.27 ft

DEPTH W.L.: 12.80'  
 ELEVATION W.L.: 426.37'  
 DATE W.L.: 4/13/2020  
 TIME W.L.: 14:10

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		
40		40.00 - 42.00 ML, CLAYEY SILT, Transitionally weathered rock, interlayered unweathered and weathered metagranite, moderately to well foliated, grey clay throughout	TWR		40.00				 <p style="text-align: center;">0.010" Slotted - Screen</p>	<p><b>WELL CASING</b> Interval: 0' - 39.45' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 39.45' - 49.45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 37.25' - 49.45' Type: #1 Sand Quantity: 3.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 33.8' - 37.25' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 33.8' Type: Cement-Bentonite Quantity: 900lbs Cement, 45lbs Bentonite, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
395		42.00 - 46.00 ML, CLAYEY SILT, grey clay, no structure, non-cohesive, compact, SAPROLITE	ML		42.00	4	ROTO 6.00 SONIC 6.00			
45		46.00 - 50.00 METAGRANITE, medium grained, moderately foliated at 46', 47-50' BIOTITE GNEISS, fine grained, well foliated, fractured with oxidation staining throughout	BR		46.00	5	ROTO 4.00 SONIC 4.00			
390		Boring completed at 50.00 ft								
50		Boring completed at 50.00 ft								
385		Boring completed at 50.00 ft								
55		Boring completed at 50.00 ft								
380		Boring completed at 50.00 ft								
60		Boring completed at 50.00 ft								
375		Boring completed at 50.00 ft								
65		Boring completed at 50.00 ft								
370		Boring completed at 50.00 ft								
70		Boring completed at 50.00 ft								
365		Boring completed at 50.00 ft								
75		Boring completed at 50.00 ft								
360		Boring completed at 50.00 ft								
80		Boring completed at 50.00 ft								

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-62





SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 52.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/9/20  
 DATE COMPLETED: 4/9/20

NORTHING: 1,122,370.34  
 EASTING: 2,406,175.11  
 GS ELEVATION: 498.3  
 TOC ELEVATION: 501.32 ft

DEPTH W.L.: 41.00'  
 ELEVATION W.L.: 460.23'  
 DATE W.L.: 4/16/2020  
 TIME W.L.: 14:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 10.00 CL, SILTY CLAY, red, no structure, deeply weathered biotite gneiss, cohesive, soft, moist, w<PL, RESIDUUM	CL					Grout -  Riser -	<b>WELL CASING</b> Interval: 0' - 42.25' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 42.25' - 52.25' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 40' - 52.25' Type: #1 Sand Quantity: 3.5 Bags  <b>FILTER PACK SEAL</b> Interval: 36.5' - 40' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 36.5' Type: Cement-Bentonite Quantity: 450lbs Cement, 30lbs Bentonite, 60gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
495									
5									
10		10.00 - 15.00 ML, SILT, very weathered biotite gneiss, yellowish brown, mica flakes, SAPROLITE	ML		488.3			Bentonite -	
15		15.00 - 20.00 ML, SILT to CLAYEY SILT, brown to yellowish brown, very weathered, biotite gneiss, dry to moist, loose, w<PL, trace relict foliation			10.00	1	ROTO 8.00 SONIC 10.00		
20		20.00 - 30.00 ML, CLAYEY SILT, primarily biotite and plagioclase, very weathered with some amphibolite and trace quartz, brown, cohesive, moist, soft to firm, w<PL, SAPROLITE	ML		483.3				
25		25.00 - 30.00 ML, SILT, very weathered to weathered amphibolite, brownish green to greenish brown, fine to medium grained, weakly foliated, oxidated at 34', SAPROLITE			15.00	2	ROTO 8.00 SONIC 10.00		
30		30.00 - 35.00 ML, SILT, very weathered to weathered amphibolite, brownish green to greenish brown, fine to medium grained, weakly foliated, oxidated at 34', SAPROLITE	ML		478.3				
35		35.00 - 40.00 ML, SILT and clayey SILT, weathered biotite gneiss, mica flakes, brown to greyish brown, mottled, some foliation present, SAPROLITE			30.00	3	ROTO 10.00 SONIC 10.00		
40		Log continued on next page			468.3				
					463.3				
					458.3				

BOREHOLE RECORD: PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ - PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-62

SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 52.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/9/20  
 DATE COMPLETED: 4/9/20

NORTHING: 1,122,370.34  
 EASTING: 2,406,175.11  
 GS ELEVATION: 498.3  
 TOC ELEVATION: 501.32 ft

DEPTH W.L.: 41.00'  
 ELEVATION W.L.: 460.23'  
 DATE W.L.: 4/16/2020  
 TIME W.L.: 14:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40		40.00 - 46.00 ML, SILT and clayey SILT, brown to greyish brown, weathered to very weathered biotite gneiss, no to faint relict foliation, mica flakes, moist to wet, soft to stiff, SAPROLITE	ML		40.00	4	ROTO 7.00 SONIC 6.00		<p style="font-size: small;">Sand -  0.010" Slotted - Screen</p>	<p><b>WELL CASING</b> Interval: 0' - 42.25' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 42.25' - 52.25' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 40' - 52.25' Type: #1 Sand Quantity: 3.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 36.5' - 40' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 36.5' Type: Cement-Bentonite Quantity: 450lbs Cement, 30lbs Bentonite, 60gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
45		46.00 - 50.00 Wash out			452.3 46.00	5	ROTO 0.00 SONIC 4.00			
45		50.00 - 52.00 ML, sandy SILT, very fine to fine sand, brownish grey to greyish brown, relict foliation, weathered biotite gneiss, very stiff, SAPROLITE	ML		448.3 50.00	6	ROTO 2.50 SONIC 2.00			
45		Boring completed at 52.00 ft								
55										
60										
65										
70										
75										
80										

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-63

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 40.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/12/20  
 DATE COMPLETED: 4/12/20

NORTHING: 1,123,955.38  
 EASTING: 2,404,060.61  
 GS ELEVATION: 498.9  
 TOC ELEVATION: 501.54 ft

DEPTH W.L.: 20.0'  
 ELEVATION W.L.: 481.29'  
 DATE W.L.: 4/22/2020  
 TIME W.L.: 15:10

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	SAMPLE NO.	TYPE	REC		
0		0.00 - 10.00 Hydro-vac for utility clearance.								<b>WELL CASING</b> Interval: 0' - 30' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 30' - 40' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"  <b>FILTER PACK</b> Interval: 28' - 40' Type: #1 Sand Quantity: 3.5 Bags  <b>FILTER PACK SEAL</b> Interval: 24.2' - 28' Type: Pel Plug Quantity: 5gal Bucket  <b>ANNULUS SEAL</b> Interval: 0' - 24.2' Type: Cement-Bentonite Quantity: 750lbs Cement, 35lbs Bentonite, 87gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
495								Grout -		
5										
490								Riser -		
10		10.00 - 11.50 SM, SILTY SAND, fine to medium sand, brown, weathered biotite gneiss, no structure, quartz-biotite-plagioclase, loose, moist, w<PL, SAPROLITE	SM		488.9 10.00					
		11.50 - 14.50 ML, sandy CLAYEY SILT, fine sand, yellowish brown, very weathered biotite gneiss, no structure, moist, non-cohesive, loose, w<PL	ML		487.4 11.50					
15		14.50 - 18.50 CL, CLAY, white to very pale brown, non-plastic, dry, soft	CL		484.4 14.50	1	ROTO 10.00 SONIC 10.00			
		18.50 - 20.00 SM, SILTY SAND, weathered biotite gneiss, greyish brown, trace relict foliation, fine grained, quartz-biotite-plagioclase, dry to moist, compact to dense, SAPROLITE	SM		480.4 18.50					
20		20.00 - 22.00 ML, sandy CLAYEY SILT, brown, relict foliation, with clay lenses, weathered biotite gneiss, compac, moist, w<PL, SAPROLITE	ML		478.9 20.00					
		22.00 - 23.00 CL, SILTY CLAY, no structure, olive brown, cohesive, soft to firm, moist	CL		476.9 22.00	2	ROTO 6.00 SONIC 6.00			
25		23.00 - 26.00 ML, sandy CLAYEY SILT, brown, relict foliation with clay lenses, weathered biotite gneiss, compact, moist, w<PL	ML		475.9 23.00			Bentonite -		
		26.00 - 28.00 BIOTITE GNEISS unweathered, well foliated, medium to fine grained, quartz-hornblende-blagioclase, dry	BR		472.9 26.00	3	ROTO 4.00 SONIC 4.00			
30		28.00 - 30.00 Transitionally Weathered Rock interlayered saprolite and unweathered BIOTITIE GNEISS, well foliated, fine to medium grained, moist, clay lenses throughtout, moist to wet	BR		470.9 28.00					
		30.00 - 40.00 BIOTITE GNEISS, medium grained, moderately to well foliatd, fractured throughout, puck shaped discs primarily 2" thick or less, oxidation staining throughout, quartz-hornblendend-plagioclase	BR		468.9 30.00	4	ROTO 10.00 SONIC 10.00	Sand -		
35										
465								0.010" Slotted Screen		
460										
40		Boring completed at 40.00 ft				458.9				

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-64

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 70.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/8/20  
 DATE COMPLETED: 4/8/20

NORTHING: 1,123,724.36  
 EASTING: 2,406,404.18  
 GS ELEVATION: 476.0  
 TOC ELEVATION: 479.52 ft

DEPTH W.L.: 53.62'  
 ELEVATION W.L.: 425.74'  
 DATE W.L.: 4/15/2020  
 TIME W.L.: 17:30

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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	475	0.00 - 1.50 CL, SILTY CLAY, red, deeply weathered, no structure, deeply weathered biotite gneiss, cohesive, dry to moist, very soft to soft	CL		474.5				Grout -           Riser -	<p><b>WELL CASING</b> Interval: 0' - 59' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 59' - 69' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 57' - 69' Type: #1 Sand Quantity: 4.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 53.3' - 57' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 53.3' Type: Cement-Bentonite Quantity: 600lbs Cement, 50lbs Bentonite, 80gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
		1.50 - 10.00 ML, CLAYEY SILT, light reddish brown to brown, deeply weathered biotite, w<PL, gneiss, some relict foliation, cohesive, dry to moist, soft to firm, non-plastic	ML		1.50	1	ROTO 6.00 SONIC 10.00			
5	470									
		10.00 - 14.00 ML, SILT, brown, weathered biotite gneiss	ML		466					
10	465				10.00					
		14.00 - 15.00 SP/SM, SAND and SILTY SAND, fine to medium sand, granitic, dry to moist, plagioclase rich	SP-SM		462					
15	460				14.00	2	ROTO 10.00 SONIC 10.00			
		15.00 - 17.00 ML, SILT, cobble sized granitic pieces, tan, slightly foliated, plagioclase rich, soft, dry, w<PL, non-plastic	ML		461					
		17.00 - 20.00 ML/CL, interlayered SILT and CLAY lenses, brown, weathered biotite gneiss, dry to moist, cohesive, hard, w<PL, SAPROLITE	ML		459					
					17.00					
20	455				456					
		20.00 - 26.00 SM, SILTY SAND, biotite gneiss, pale brown to bro, dry to wet, SAPROLITE	SM		20.00	3	ROTO 6.00 SONIC 6.00			
25	450				450					
		26.00 - 30.00 SM, SILTY SAND, Transitionally weathered rock, foliated, biotite rich, oxidation zones within transitionally weathered rock, medium grained, brown, wet, SAPROLITE	TWR		26.00	4	ROTO 4.00 SONIC 4.00			
30	445				446					
		30.00 - 40.00 BIOTITE GNEISS, biotite is medium grained, oxidation, amphibolite gneiss is foliated and fine grained	BR		30.00	5	ROTO 5.50 SONIC 10.00			
35	440									
40					436					

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# RECORD OF BOREHOLE PZ-64





SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 70.00 ft  
 LOCATION: Juliette, GA

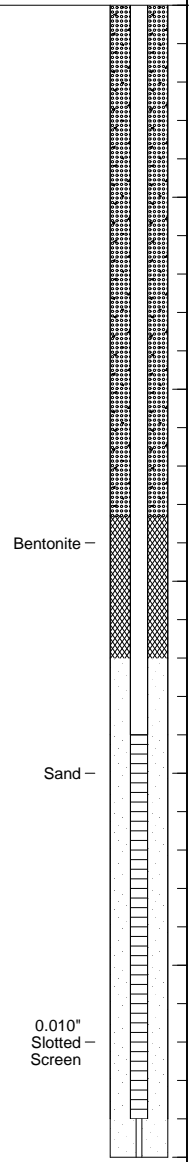
DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/8/20  
 DATE COMPLETED: 4/8/20

NORTHING: 1,123,724.36  
 EASTING: 2,406,404.18  
 GS ELEVATION: 476.0  
 TOC ELEVATION: 479.52 ft

DEPTH W.L.: 53.62'  
 ELEVATION W.L.: 425.74'  
 DATE W.L.: 4/15/2020  
 TIME W.L.: 17:30

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40	435	40.00 - 50.00 BIOTITE GNEISS, poor recovery, weathered and highly fractured	BR		40.00	6	ROTO 1.50 SONIC 10.00	-	-	
45	430				426					50.00
50	425	50.00 - 56.00 BIOTITE GNEISS, black with oxidation, quartz and biotite rich, weathered biotite, fine grained, foliated	BR		50.00	7	ROTO 6.00 SONIC 6.00	-	-	
55	420				420					56.00
60	415	56.00 - 60.00 BIOTITE GNEISS, slightly weathered to unweathered, well foliated, fine grained	BR		60.00	8	ROTO 2.50 SONIC 4.00	-	-	
65	410				416					60.00
70	405	60.00 - 70.00 BIOTITE GNEISS, foliated, medium grained, white and black	BR		70.00	9	ROTO 8.50 SONIC 10.00	-	-	
75	400				406					70.00
80	395	Boring completed at 70.00 ft				-	-	-	-	

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20



LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-65

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 30.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/11/20  
 DATE COMPLETED: 4/11/20

NORTHING: 1,121,937.16  
 EASTING: 2,407,733.04  
 GS ELEVATION: 429.6  
 TOC ELEVATION: 432.42 ft

DEPTH W.L.: 15.46'  
 ELEVATION W.L.: 416.89'  
 DATE W.L.: 4/16/2020  
 TIME W.L.: 1515

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 2.00 CL, SILTY CLAY, 2.5 YR 4/6 red, no structure, deeply weathered, cohesive, firm to stiff, dry to moist, trace very fine mica, RESIDUUM	CL		427.6					<p><b>WELL CASING</b> Interval: 0' - 20' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 20' - 30' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 17.5" - 30' Type: #1 Sand Quantity: 3.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 14' - 17.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 14' Type: Cement-Bentonite Quantity: 400lbs Cement, 24lbs Bentonite, 60gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
2.00 - 13.00		ML, CLAYEY SILT, 10 YR 5/3 brown, deeply weathered, little to no structure, mica flakes, dry to moist, cohesive, soft to firm, some mottling at 12', RESIDUUM	ML		2.00	1	ROTO 7.00 SONIC 10.00			
13.00 - 20.00		ML, SILT, some clay, trace fine sand, 10 YR 5/3 brown to olive brown, deeply weathered, interlayered biotite gneiss-amphibolite, trace to faint relict foliation, cohesive, firm to stiff, moist, biotite-hornblende-plagioclase, SAPROLITE	ML		416.6	2	ROTO 9.50 SONIC 10.00			
20.00 - 23.50		SM, SILTY SAND, fine sand, weathered biotite gneiss with higher quartz content, faint relict foliation, mottling, moist to wet, stiff to very stiff, cohesive, SAPROLITE	SM		409.6					
23.50 - 26.50		ML, CLAYEY SILT, trace very fine sand, brown to live brown to yellowish brown, deeply weathered biotite gneiss and amphibolite interlayered, trace quartz, mottled, faint relict foliation, moist, firm to very stiff, cohesive, SAPROLITE	ML		406.1	3	ROTO 12.00 SONIC 10.00			
26.50 - 28.50		SM, clayey SILTY SAND, yellowish brown to brown, deeply weathered, interlayered biotite gneiss and amphibolite, mottled, moist to wet, trace relict foliation, soft to firm, SAPROLITE	SM		403.1					
28.50 - 30.00		SM-ML, SILT and SILTY SAND, very fine to fine sand, brown to olive brown, weathered interlayered biotite amphibolite, relict foliation, SAPROLITE	SM-ML		401.1					
		Boring completed at 30.00 ft								

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-66

SHEET 1 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 60.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/1/20  
 DATE COMPLETED: 4/2/20

NORTHING: 1,124,664.10  
 EASTING: 2,409,115.98  
 GS ELEVATION: 418.4  
 TOC ELEVATION: 421.24 ft

DEPTH W.L.: 31.83'  
 ELEVATION W.L.: 389.30'  
 DATE W.L.: 4/7/2020  
 TIME W.L.: 15:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 5.00 CL, SILTY CLAY, red, deeply weathered biotite gneiss, no structure, trace mica, cohesive, firm to stiff, dry to moist, w<PL	CL	[Hatched Box]	413.4	1	ROTO 8.50 SONIC 10.00	Cement -  Riser -	<p><b>WELL CASING</b> Interval: 0' - 45' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 45' - 60' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 41.8' - 60' Type: #1 Sand Quantity: 5.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 38' - 41.8' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 38' Type: Cement-Bentonite Quantity: 600lbs Cement, 46lbs Bentonite, 70gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
5		5.00 - 10.00 ML, CLAYEY SILT, red, deeply weathered biotite gneiss, no structure, trace mica, cohesive, soft, dry to moist, w<PL	ML	[Hatched Box]	5.00				
10		10.00 - 30.00 ML, CLAYEY SILT, yellowish brown to strong brown to brown, deeply weathered biotite gneiss, some relict foliation, cohesive, sft, moist, w<PL	ML	[Hatched Box]	408.4	2	ROTO 6.50 SONIC 10.00		
15			ML	[Hatched Box]	10.00				
20			ML	[Hatched Box]		3	ROTO 9.50 SONIC 10.00		
25			ML	[Hatched Box]		4	ROTO 10.00 SONIC 10.00		
30		30.00 - 39.00 ML, SILT, brown, very weathered biotite gneiss, cohesive, moist, soft w<PL	ML	[Hatched Box]	388.4				
35			ML	[Hatched Box]	30.00				
38			SM	[Hatched Box]	379.4				
40		Log continued on next page			39.00			Bentonite -	

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-66

SHEET 2 of 2

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 60.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/1/20  
 DATE COMPLETED: 4/2/20

NORTHING: 1,124,664.10  
 EASTING: 2,409,115.98  
 GS ELEVATION: 418.4  
 TOC ELEVATION: 421.24 ft

DEPTH W.L.: 31.83'  
 ELEVATION W.L.: 389.30'  
 DATE W.L.: 4/7/2020  
 TIME W.L.: 15:55

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40		39.00 - 44.00 SM, SILTY SAND, gley, very dark greenish grey, very weathered hornblende gneiss, non ohesive, loose to compact, moist, to wet, SAPROLITE (Continued)	SM			5	ROTO 4.00 SONIC 4.00		<p style="font-size: small;">0.010" Slotted Screen</p>	<p><b>WELL CASING</b> Interval: 0' - 45' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 45' - 60' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 41.8' - 60' Type: #1 Sand Quantity: 5.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 38' - 41.8' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 38' Type: Cement-Bentonite Quantity: 600lbs Cement, 46lbs Bentonite, 70gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
37.5		44.00 - 60.00 BIOTITE GNEISS, oxidation staining, well foliated, fine grained, greenish black to black with white foliations 44.50: Oxidation staining			374.4 44.00	6	ROTO 6.00 SONIC 6.00	Sand -		
45		50.00: Oxidation staining	BR							
370		54.80: Oxidation staining 55.50: Oxidation staining				7	ROTO 10.00 SONIC 10.00			
50		58.00: Oxidation staining								
365		60.00: Oxidation staining Boring completed at 60.00 ft			358.4					
55										
60										
360										
65										
70										
350										
75										
345										
80										

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-66D

SHEET 1 of 7

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 266.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/26/20  
 DATE COMPLETED: 5/6/20

NORTHING: 1,124,644.48  
 EASTING: 2,409,028.45  
 GS ELEVATION: 424.4  
 TOC ELEVATION: 427.60 ft

DEPTH W.L.: 39.70  
 ELEVATION W.L.: 387.90  
 DATE W.L.: 5/8/2020  
 TIME W.L.: 12:15

BOREHOLE RECORD PLANT SCHERER CRG INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
0		0.00 - 6.00 Hand auger for utility clearance.						Grout -	<b>WELL CASING</b> Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A  <b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A  <b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A  <b>ANNULUS SEAL</b> Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
5	420	6.00 - 16.00 SM, SILTY SAND, brown dark brown and grey, some clay, loose, rich in muscovite and weathered biotite, soft dry			418.4 6.00				
10	415		SM			1	ROTO <u>5.00</u> SONIC 10.00		
15	410				408.4 16.00				
20	405	16.00 - 33.00 SM, SILTY SAND, tan, brown and grey, with clay, loose, weathered biotite, soft, dry, some weathered amphibolite							
25	400		SM			2	ROTO <u>4.50</u> SONIC 10.00		
30	395					3	ROTO <u>10.00</u> SONIC 10.00		
35	390	33.00 - 36.00 SM, SILTY SAND, grey dark brown, weathered biotite gneiss, rich in biotite-plagioclase-quartz, SAPROLITE			391.4 33.00				
40	385	36.00 - 46.00 SM, SILTY SAND, greenish grey, transitionally weathered rock biotite gneiss, rich in biotite-plagioclase-quartz-hornblende, soft, loose, moist			388.4 36.00				
			TWR			4	ROTO <u>10.00</u> SONIC 10.00	6" Casing -	

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-66D

SHEET 2 of 7

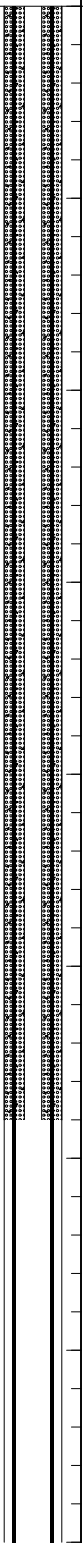
PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 266.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/26/20  
 DATE COMPLETED: 5/6/20

NORTHING: 1,124,644.48  
 EASTING: 2,409,028.45  
 GS ELEVATION: 424.4  
 TOC ELEVATION: 427.60 ft

DEPTH W.L.: 39.70  
 ELEVATION W.L.: 387.90  
 DATE W.L.: 5/8/2020  
 TIME W.L.: 12:15

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
40		36.00 - 46.00 SM, SILTY SAND, greenish grey, transitionally weathered rock biotite gneiss, rich in biotite-plagioclase-quartz-hornblende, soft, loose, moist ( <i>Continued</i> )	TWR		378.4	4	ROTO <u>10.00</u> SONIC 10.00		<p><b>WELL CASING</b> Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
45	380	46.00 - 56.00 BIOTITE GNEISS, fine grained, well foliated, black, white and grey, rich in quartz-hornblende-plagioclase-biotite, very hard, stiff, no obvious fractures	BR		368.4	5	ROTO <u>9.00</u> SONIC 10.00		
50	375	56.00 - 69.00 BIOTITE GNEISS, black white grey, fine grained, well foliated, small fractures, weathering discoloration observed at 58'-59', rich in hornblende-plagioclase-biotite-quartz, hard, very dense	BR		368.4	6	ROTO <u>10.00</u> SONIC 10.00		
55	370	69.00 - 76.00 BIOTITE GNEISS, black white grey, fine grained, some fractures at 69'-70', moderately foliated, quartz-hornblende-plagioclase-biotite, hard, very dense	BR		355.4	7	ROTO <u>3.00</u> SONIC 3.00		
60	365	76.00 - 86.00 BIOTITE GNEISS, black white grey, fine grained, well foliated, rich in plagioclase-quartz-biotite, some fractures at 79' and 82', hard, very dense  Some amphibolite from 79'-81' and 83'-84'	BR		348.4	8	ROTO <u>7.00</u> SONIC 7.00		
65	360					9	ROTO <u>10.00</u> SONIC 10.00		
70	355								
75	350								
80	345								

Open Boring -

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-66D

SHEET 3 of 7

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 266.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/26/20  
 DATE COMPLETED: 5/6/20

NORTHING: 1,124,644.48  
 EASTING: 2,409,028.45  
 GS ELEVATION: 424.4  
 TOC ELEVATION: 427.60 ft

DEPTH W.L.: 39.70  
 ELEVATION W.L.: 387.90  
 DATE W.L.: 5/8/2020  
 TIME W.L.: 12:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
80		76.00 - 86.00 BIOTITE GNEISS, black white grey, fine grained, well foliated, rich in plagioclase-quartz-biotite, some fractures at 79' and 82', hard, very dense  Some amphibolite from 79'-81' and 83'-84' (Continued)	BR	[Red hatched pattern]	338.4 86.00	9	ROTO SONIC	10.00 10.00		<p><b>WELL CASING</b> Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
85	340	86.00 - 96.00 BIOTITE GNEISS, black white grey, moderately foliated, rich in plagioclase-biotite, some hornblende, very hard, little fractures	BR	[Red hatched pattern]	328.4 96.00	10	ROTO SONIC	9.50 10.00		
90	335	96.00 - 106.00 BIOTITE GNEISS and AMPHIBOLITE, black white grey, amphibolite from 99'-101.6' and 105.5'-106', biotite gneiss has hornblende-plagioclase-biotite, amphibolite with pyrite-hornblende-amphibole, fractures throughout, hard, dense	BR	[Red hatched pattern]	318.4 106.00	11	ROTO SONIC	10.00 10.00	Open Boring - 6" Diameter	
95	330	106.00 - 116.00 BIOTITE GNEISS, feldspar, quartz, fine to medium grained, weakly to strongly foliated, poorly jointed, fresh to slightly weathered  Fractures at 109.5'	BR	[Red hatched pattern]	308.4 116.00	12	ROTO SONIC	10.00 10.00		
100	325	116.00 - 126.00 AMPHIBOLITE/HORNBLLENDE GNEISS, salt and pepper to dark green, fine to moderately grained, poorly jointed, moderately foliated, quartz-biotite-hornblende, fresh to moderately weathered, deeply weathered almost saprolitic  Fractures 122.1', 124.75'	BR	[Red hatched pattern]		13	ROTO SONIC	9.60 10.00		
105	320									
110	315									
115	310									
120	305									

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-66D

SHEET 4 of 7

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 266.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/26/20  
 DATE COMPLETED: 5/6/20

NORTHING: 1,124,644.48  
 EASTING: 2,409,028.45  
 GS ELEVATION: 424.4  
 TOC ELEVATION: 427.60 ft

DEPTH W.L.: 39.70  
 ELEVATION W.L.: 387.90  
 DATE W.L.: 5/8/2020  
 TIME W.L.: 12:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
120		116.00 - 126.00 AMPHIBOLITE/HORNBLLENDE GNEISS, salt and pepper to dark green, fine to moderately grained, poorly jointed, moderately foliated, quartz-biotite-hornblende, fresh to moderately weathered, deeply weathered almost saprolitic  Fractures 122.1', 124.75' (Continued)	BR	[Red hatched pattern]	298.4	13	ROTO 9.60 SONIC 10.00	Open Boring - 6" Diameter	<p><b>WELL CASING</b> Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
125	300	126.00 - 136.00 AMPHIBOLITE/HORNBLLENDE GNEISS, salt and pepper to dark green, fine to moderately grained, poorly jointed, moderately foliated, quartz-biotite-hornblende, fresh to moderately weathered, deeply weathered  Fractures 127.9', 133', 133.6'	BR	[Red hatched pattern]	288.4	14	ROTO 8.50 SONIC 10.00		
130	295	136.00 - 146.00 HORNBLLENDE/BIOTITE GNEISS, quartz, well foliated, slightly jointed, fresh to moderately weathered, rock moving more towards biotite gneiss  Fractures 136.6', 138.1-138.5'	BR	[Red hatched pattern]	278.4	15	ROTO 9.50 SONIC 10.00		
135	290	146.00 - 156.00 HORNBLLENDE/BIOTITE GNEISS, quartz, well foliated, slightly jointed, fresh to moderately weathered, rock becoming more felsic than mafic  Fractures 146.6', 147.5', 148.5' 152'	BR	[Red hatched pattern]	268.4	16	ROTO 10.00 SONIC 10.00		
140	285	156.00 - 166.00 HORNBLLENDE/BIOTITE GNEISS, quartz, well foliated, slightly jointed, fresh to moderately weathered  164' Amphibolite, salt and pepper, fresh weathered  Fracture 157.75', 160.4', 161.4', 161.4', 162.4', 164'	BR	[Red hatched pattern]	268.4	17	ROTO 9.75 SONIC 10.00		
145	280	Log continued on next page							

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# RECORD OF BOREHOLE PZ-66D

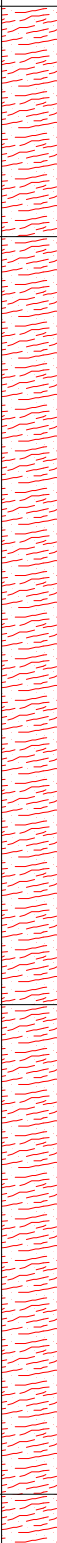
SHEET 5 of 7

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 266.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/26/20  
 DATE COMPLETED: 5/6/20

NORTHING: 1,124,644.48  
 EASTING: 2,409,028.45  
 GS ELEVATION: 424.4  
 TOC ELEVATION: 427.60 ft

DEPTH W.L.: 39.70  
 ELEVATION W.L.: 387.90  
 DATE W.L.: 5/8/2020  
 TIME W.L.: 12:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
160		156.00 - 166.00 HORNBLLENDE/BIOTITE GNEISS, quartz, well foliated, slightly jointed, fresh to moderately weathered  164' Amphibolite, salt and pepper, fresh weathered  Fracture 157.75', 160.4', 161.4', 161.4', 162.4', 164' (Continued)	BR			17	ROTO SONIC	9.75 10.00	<p><b>WELL CASING</b> Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
260		166.00 - 186.00 BIOTITE/HORNBLLENDE GNEISS, fine to medium grained, fresh to slightly weathered, well foliated, poorly jointed	BR		258.4 166.00	18	ROTO SONIC	10.00 10.00	
165			BR			19	ROTO SONIC	10.00 10.00	
170			BR			20	ROTO SONIC	10.00 10.00	
250			BR			21	ROTO SONIC	9.00 10.00	
175		186.00 - 198.75 BIOTITE GNEISS, feldspar, quartz, biotite, black to light grey, fresh to moderately weathered, fine to medium grained, feldspar has weathered out,  Fractures 194', 197.45'	BR		238.4 186.00				
180			BR						
245			BR						
185			BR						
240			BR						
190			BR						
235			BR						
195			BR						
230			BR						
225			BR						
200			BR						

Open Boring - 6" Diameter

Log continued on next page

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-66D

SHEET 6 of 7

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 266.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/26/20  
 DATE COMPLETED: 5/6/20

NORTHING: 1,124,644.48  
 EASTING: 2,409,028.45  
 GS ELEVATION: 424.4  
 TOC ELEVATION: 427.60 ft

DEPTH W.L.: 39.70  
 ELEVATION W.L.: 387.90  
 DATE W.L.: 5/8/2020  
 TIME W.L.: 12:15

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
200		198.75 - 206.00 AMPHIBOLITE/ BIOTITE GNEISS, fine grained, weakly foliated, poorly jointed ( <i>Continued</i> )	BR		218.4	21	ROTO SONIC	9.00 10.00	<p><b>WELL CASING</b> Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
205		206.00 - 216.00 HORNBLLENDE/BIOTITE GNEISS, fresh to slightly weathered, locally contained quartz, well foliated well jointed, water staining 212.5'-214'  Fractures, 207', 207.5', 208.2', 209.5', 209.6', 209.9', 212.25'	BR		206.00	22	ROTO SONIC	10.00 10.00	
210		216.00 - 236.00 HORNBLLENDE/BIOTITE GNEISS, fresh to slightly weathered, locally contained quartz, well foliated well jointed,	BR		208.4	23	ROTO SONIC	8.75 10.00	
215		216.00 - 236.00 HORNBLLENDE/BIOTITE GNEISS, fresh to slightly weathered, locally contained quartz, well foliated well jointed,	BR		216.00	24	ROTO SONIC	10.00 10.00	
220		236.00 - 246.00 HORNBLLENDE/BIOTITE GNEISS, fresh to slightly weathered, locally contained quartz, well foliated well jointed, gneiss becoming more migmatite, locally contains pygmatic folds starting at 241'	BR		188.4 236.00	25	ROTO SONIC	9.00 10.00	
225								Open Boring _ 6" Diameter	
230									
235									
240									

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-66D

SHEET 7 of 7

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 266.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/26/20  
 DATE COMPLETED: 5/6/20

NORTHING: 1,124,644.48  
 EASTING: 2,409,028.45  
 GS ELEVATION: 424.4  
 TOC ELEVATION: 427.60 ft

DEPTH W.L.: 39.70  
 ELEVATION W.L.: 387.90  
 DATE W.L.: 5/8/2020  
 TIME W.L.: 12:15

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
240		236.00 - 246.00 HORNBLLENDE/BIOTITE GNEISS, fresh to slightly weathered, locally contained quartz, well foliated well jointed, gneiss becoming more migmatite, locally contains pygmatic folds starting at 241' (Continued)	BR		178.4	25	ROTO SONIC	9.00 10.00	Open Boring - 6" Diameter	<p><b>WELL CASING</b> Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
245	180	246.00 - 256.00 MIGMATIT, plagioclase quartz biotite with hornblende, fresh to moderately weathered, poorly foliated, poorly jointed, entire run has water staining, fractures every 1/4'	BR		246.00					
250	175	256.00 - 266.00 HORNBLLENDE/BIOTITE GNEISS, fresh to slightly weathered, locally contained quartz, well foliated well jointed  Fracture 257'	BR		168.4	26	ROTO SONIC	10.00 10.00		
255	170				256.00					
260	165		BR			27	ROTO SONIC	7.00 10.00		
265	160				158.4					
		Boring completed at 266.00 ft								
270	155									
275	150									
280	145									

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-67

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 40.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/1/20  
 DATE COMPLETED: 4/1/20

NORTHING: 1,125,782.26  
 EASTING: 2,408,248.89  
 GS ELEVATION: 423.2  
 TOC ELEVATION: 425.94 ft

DEPTH W.L.: 25.5'  
 ELEVATION W.L.: 400.36'  
 DATE W.L.: 4/14/2020  
 TIME W.L.: 11:30

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

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		
0		0.00 - 10.00 CL, SILTY CLAY, 2.5 YR 3/4 reddish brown, no structure, deeply weathered biotite gneiss, trace mica, cohesive, plastic, moist, w<PL, RESIDUUM	CL		413.2				<p><b>WELL CASING</b> Interval: 0' - 29.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 29.75' - 39.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 27.75' - 39.75' Type: #1 Sand Quantity: 3.25 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 24.5' - 27.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 24.5' Type: Cement - Bentonite Quantity: 600lbs Cement, 40lbs Bentonite, 80gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
420							Grout -		
5							Riser -		
415									
10		10.00 - 13.00 ML, CLAYEY SILT, 2.5YR 4/6 red, deeply weathered biotite gneiss, no structure, trace mica, cohesive, non-plastic, w<PL, soft to firm, moist, RESIDUUM	ML		410.2				
410		13.00 - 15.00 ML, CLAYEY SILT, 5 YR 5/8 yellowish red, deeply weathered biotite gneiss, no structure, some mica, cohesive, soft to firm, w<PL, moist, RESIDUUM	ML		408.2				
15		15.00 - 24.00 ML, CLAYEY SILT, trace relict foliation, very weathered biotite gneiss, non-cohesive, loose, moist, w<PL, most to wet 20-24' RESIDUUM	ML		399.2	1	ROTO 7.00 SONIC 10.00		
405									
20									
400		24.00 - 30.00 ML, CLAYEY SILT, 10 YR 5/6 yellowish brown, weathered biotite gneiss, foliated, quartz-hornblende-plagioclase-biotite, cohesive, stiff, w<PL, moist, SAPROLITE	ML		393.2	2	ROTO 10.00 SONIC 10.00		
25							Bentonite -		
30		30.00 - 38.00 ML, SILT 10 YR 5/6 yellowish brown, slightly foliated, mottled, very weathered biotite gneiss, wet 30-32', moist to wet 32-38', some sand, very fine to fine sand, SAPROLITE	ML		385.2	3	ROTO 10.00 SONIC 10.00		
35							Sand -		
385		38.00 - 40.00 Transitionally weathered rock, saprolitic rock, BIOTITE GNEISS, interlayered with saprolite very weathered, slightly foliated	TWR		383.2				
40		Boring completed at 40.00 ft						0.010" Slotted Screen	

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-67D

SHEET 1 of 8



PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 301.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/25/20

NORTHING: 1,125,764.81  
 EASTING: 2,408,259.40  
 GS ELEVATION: 424.7  
 TOC ELEVATION: 428.48 ft

DEPTH W.L.: 40.32  
 ELEVATION W.L.: 388.16  
 DATE W.L.: 5/6/2020  
 TIME W.L.: 10:24

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 6.00 SM, SILTY SAND with trace clay, low to non plastic, non-cohesive, w<PL, loose/soft, high mica content	SM		418.7 6.00	1	ROTO <u>2.20</u> SONIC 6.00		Grout -	<b>WELL CASING</b> Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A  <b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A  <b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A  <b>ANNULUS SEAL</b> Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
5	420	6.00 - 16.00 ML, SILT, with trace sand and clay, red brown to bronze, non to low plasticity, dry to moist, loose, w<PL, high mica content, RESIDUUM	ML		408.7 16.00	2	ROTO <u>5.25</u> SONIC 10.00			
10	415	16.00 - 26.00 ML, SILT, with trace sand and clay, red brown, non to low plasticity, dry to moist, loose, w<PL, high mica content, RESIDUUM	ML		398.7 26.00	3	ROTO <u>5.00</u> SONIC 10.00			
15	410	26.00 - 29.50 ML, SILT, with trace sand and clay, red brown to bronze, non to low plasticity, dry to moist, loose, w<PL, high mica content, RESIDUUM	ML		395.2 29.50	4	ROTO <u>9.50</u> SONIC 10.00			
20	405	29.50 - 36.00 GW, sandy GRAVEL, Transitionally weathered rock, well graded, fine to coarse, non-plastic, loose, dry, w<PL, amphibolite, fine-medium grained, moderately weathered, quartz, plagioclase, hornblende	TWR		388.7 36.00	5	ROTO <u>9.20</u> SONIC 10.00			
25	400	36.00 - 42.00 CL, CLAY, some very fine sand, low plasticity, dark green, wet to moist, very soft, w<PL	CL							
30	395									
35	390									
40	385									

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-67D

SHEET 2 of 8

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 301.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/25/20

NORTHING: 1,125,764.81  
 EASTING: 2,408,259.40  
 GS ELEVATION: 424.7  
 TOC ELEVATION: 428.48 ft

DEPTH W.L.: 40.32  
 ELEVATION W.L.: 388.16  
 DATE W.L.: 5/6/2020  
 TIME W.L.: 10:24

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
40		36.00 - 42.00 CL, CLAY, some very fine sand, low plasticity, dark green, wet to moist, very soft, w<PL (Continued)	CL		382.7				6 1/4" Casing	<p><b>WELL CASING</b> Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
		42.00 - 44.00 SM, SILTY SAND, with trace gravel, medium green to brown green non-plastic, w<PL, compact to dense	SM		42.00	5	ROTO 9.20 SONIC 10.00			
45	380	44.00 - 46.00 SM, SILTY SAND, trace gravel, tan to brown, fine to coarse sand, gravel quartz and feldspar, dry to moist, w<PL, non to low plasticity, loose-compact, biotite gneiss	SM		44.00					
		46.00 - 49.00 CL, CLAY, with sand and trace gravel, medium green to dark green, moist to dry, w<PL, non-cohesive, compact, RESIDUUM	CL		46.00					
		49.00 - 53.50 ML, SILT, with trace fine gravel, light green, low plasticity, loose, dry, w<PL,	ML		49.00	6	ROTO 9.50 SONIC 10.00			
55	370	53.50 - 56.00 SM, SILTY SAND, trace clay, fine to medium sand, low plasticity, dry to moist, w<PL, compact, RESIDUUM	SM		53.50					
		56.00 - 66.00 AMPHIBOLITE, black and white with dark green/black and white quartz, biotite, plagioclase, hornblende, fresh to moderately weathered, poorly jointed, weakly to slightly foliated			56.00					
60	365	59.50: Fracture 59.80 - 61.10 large vein quartz zone	BR		363.6	7	ROTO 9.60 SONIC 10.00			
		61.40: Fracture								
65	360	66.00 - 76.00 AMPHIBOLITE, white to green, medium grained, fresh to slightly weathered			66.00					
		68.60: Fracture								
70	355	75.00: Fracture	BR			8	ROTO 10.00 SONIC 10.00			
75	350	76.00 - 86.00 AMPHIBOLITE, fresh rock, medium grained, white to green	BR		348.7 76.00	9	ROTO 7.00 SONIC 7.00			
80	345	Log continued on next page								

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-67D

SHEET 3 of 8

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 301.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/25/20

NORTHING: 1,125,764.81  
 EASTING: 2,408,259.40  
 GS ELEVATION: 424.7  
 TOC ELEVATION: 428.48 ft

DEPTH W.L.: 40.32  
 ELEVATION W.L.: 388.16  
 DATE W.L.: 5/6/2020  
 TIME W.L.: 10:24

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		
80		76.00 - 86.00 AMPHIBOLITE, fresh rock, medium grained, white to green <i>(Continued)</i>	BR		338.7	9	ROTO 7.00 SONIC 7.00	Open Boring --	<b>WELL CASING</b> Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A  <b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A  <b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A  <b>ANNULUS SEAL</b> Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic	
	340	81.90: Fracture					328.7			10
85		84.70: Fracture			328.7					
	335	86.00 - 96.00 AMPHIBOLITE, fresh rock, medium grained, white to green, pyrite throughout	BR		328.7	11	ROTO 7.00 SONIC 10.00			
90		92.00: Rock becomes more gneissic 92.01: Fracture 92.85: Fracture					328.7	12	ROTO 10.00 SONIC 10.00	
95		94.20: Fracture			318.7					
	325	95.50: Fracture 96.00 - 106.00 AMPHIBOLITE, fresh rock, medium grained, white to green, pyrite throughout	BR		318.7	13	ROTO 10.00 SONIC 10.00			
100		98.20: Fracture					318.7	14	ROTO 9.40 SONIC 10.00	
105		106.00 - 166.00 AMPHIBOLITE, black to white to dark green, fine to medium grained, poorly jointed, weakly foliated, fresh to slightly weathered	BR		318.7	13	ROTO 10.00 SONIC 10.00			
110		106.80: Fracture					318.7	14	ROTO 9.40 SONIC 10.00	
115					318.7					
120					318.7					

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-67D

SHEET 4 of 8

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 301.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/25/20

NORTHING: 1,125,764.81  
 EASTING: 2,408,259.40  
 GS ELEVATION: 424.7  
 TOC ELEVATION: 428.48 ft

DEPTH W.L.: 40.32  
 ELEVATION W.L.: 388.16  
 DATE W.L.: 5/6/2020  
 TIME W.L.: 10:24

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	TYPE	REC		
120		106.00 - 166.00 AMPHIBOLITE, black to white to dark green, fine to medium grained, poorly jointed, weakly foliated, fresh to slightly weathered <i>(Continued)</i>					14 ROTO <u>9.40</u> SONIC 10.00	Open Boring _ 6" Diameter	<b>WELL CASING</b> Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A  <b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A  <b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A  <b>ANNULUS SEAL</b> Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
125	300								
130	295					15 ROTO <u>8.50</u> SONIC 10.00			
135	290								
140	285		BR			16 ROTO <u>8.80</u> SONIC 10.00			
145	280								
150	275					17 ROTO <u>10.00</u> SONIC 10.00			
155	270								
160	265	157.00: Fracture				18 ROTO <u>10.00</u> SONIC 10.00			

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# RECORD OF BOREHOLE PZ-67D

SHEET 5 of 8

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 301.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/25/20

NORTHING: 1,125,764.81  
 EASTING: 2,408,259.40  
 GS ELEVATION: 424.7  
 TOC ELEVATION: 428.48 ft

DEPTH W.L.: 40.32  
 ELEVATION W.L.: 388.16  
 DATE W.L.: 5/6/2020  
 TIME W.L.: 10:24

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	
160		106.00 - 166.00 AMPHIBOLITE, black to white to dark green, fine to medium grained, poorly jointed, weakly foliated, fresh to slightly weathered <i>(Continued)</i> 160.15: Fracture	BR	●●●●●					<b>WELL CASING</b> Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A  <b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A  <b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A  <b>ANNULUS SEAL</b> Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic		
165	260	164.50: Fracture 165.20: Fracture 165.60: Fracture 166.00 - 176.00 AMPHIBOLITE, quartz, plagioclase, biotite, fine to moderately grained, weakly foliated, poorly jointed, fresh to slightly weathered, locally contains pyrite and vein quartz 168.40: Fracture					258.7				
170	255	171.20: Fracture 172.20: Fracture	BR	●●●●●							
175	250	176.00 - 186.00 AMPHIBOLITE, quartz, plagioclase, biotite, fine to moderately grained, moderately foliated, poorly jointed, fresh to slightly weathered, locally contains pyrite and vein quartz 176.80: Fracture					248.7				
180	245	180.10: Fracture	BR	●●●●●					Open Boring - 6" Diameter		
185	240	186.00 - 196.00 AMPHIBOLITE/HORNBLLENDE GNEISS, fine to moderately grained, moderately to well foliated, poorly jointed, fresh to slightly weathered, locally contains pyrite and vein quartz. 187.00: Fracture					238.7				
190	235	189.25: Fracture 189.50: Fracture 191.10: Fracture	BR	●●●●●							
195	230	194.00: Fracture					228.7				
200	225	196.00 - 226.00 AMPHIBOLITE/HORNBLLENDE GNEISS, fine to medium grained, fresh to slightly weathered, moderately foliated	BR	●●●●●						22	ROTO <u>9.50</u> SONIC 10.00

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS - SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

Log continued on next page

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-67D

SHEET 6 of 8

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 301.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/25/20

NORTHING: 1,125,764.81  
 EASTING: 2,408,259.40  
 GS ELEVATION: 424.7  
 TOC ELEVATION: 428.48 ft

DEPTH W.L.: 40.32  
 ELEVATION W.L.: 388.16  
 DATE W.L.: 5/6/2020  
 TIME W.L.: 10:24

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		
200	220	196.00 - 226.00 AMPHIBOLITE/HORNBLLENDE GNEISS, fine to medium grained, fresh to slightly weathered, moderately foliated <i>(Continued)</i>	BR	[Graphic Log: Yellow Dotted Pattern]		22	ROTO SONIC	9.50 10.00	<p><b>WELL CASING</b> Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
205	215	215.85: Fracture	BR	[Graphic Log: Yellow Dotted Pattern]		23	ROTO SONIC	10.00 10.00	
210	210		BR	[Graphic Log: Yellow Dotted Pattern]		24	ROTO SONIC	10.00 10.00	
215	205		BR	[Graphic Log: Yellow Dotted Pattern]					
220	200		BR	[Graphic Log: Yellow Dotted Pattern]					
225	195	226.00 - 236.00 BIOTITE GNEISS feldspar, garnet, biotite, weak to well foliated, fine to medium grained, black to gray, locally contains quartz veins	BR	[Graphic Log: Pink Striped Pattern]	198.7 226.00	25	ROTO SONIC	10.00 10.00	
230	190	236.00 - 246.00 BIOTITE GNEISS, interlayered with amphibolite, black and white to dark grey, fine to medium grained, fair to weakly foliated, poorly jointed, fresh, gneiss locally contains garnets, locally contain quartz veins 236.60: Fracture 238.30: Fracture	BR	[Graphic Log: Pink Striped Pattern]	188.7 236.00	26	ROTO SONIC	9.70 10.00	
235	185	Log continued on next page		[Graphic Log: Pink Striped Pattern]					

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

Open Boring - 6" Diameter

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-67D

SHEET 7 of 8

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 301.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/25/20

NORTHING: 1,125,764.81  
 EASTING: 2,408,259.40  
 GS ELEVATION: 424.7  
 TOC ELEVATION: 428.48 ft

DEPTH W.L.: 40.32  
 ELEVATION W.L.: 388.16  
 DATE W.L.: 5/6/2020  
 TIME W.L.: 10:24

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		
240		236.00 - 246.00 BIOTITE GNEISS, interlayered with amphibolite, black and white to dark grey, fine to medium grained, fair to weakly foliated, poorly jointed, fresh, gneiss locally contains garnets, locally contain quartz veins <i>(Continued)</i>	BR	[Red wavy lines]					<b>WELL CASING</b> Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A  <b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A  <b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A  <b>ANNULUS SEAL</b> Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water  <b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum  <b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic
245	180	244.40: Fracture							
		246.00 - 276.00 AMPHIBOLITE/HORNBLende GNEISS, quartz and plagioclase, locally contains small pyrite, fresh, medium grained, weak to moderately foliated, poorly jointed  Amphibolite and hornblende have dark green hue starting 266'  Fractures 246.8', 252.7', 256', 258.1', 265.8' 267.3', 273.9' 246.80: Fracture		[Yellow dots]	178.7 246.00				
250	175	252.70: Fracture				27	ROTO 9.60 SONIC 10.00		
255	170	256.00: Fracture							
260	165	258.10: Fracture							
			BR			28	ROTO 10.00 SONIC 10.00	Open Boring _ 6" Diameter	
265	160	265.80: Fracture							
270	155	267.30: Fracture							
275	150	273.90: Fracture				29	ROTO 10.00 SONIC 10.00		
					148.7 276.00				
280	145	Log continued on next page	BR			30	ROTO 10.00 SONIC 10.00		

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-67D

SHEET 8 of 8

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 301.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TS 150  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/25/20

NORTHING: 1,125,764.81  
 EASTING: 2,408,259.40  
 GS ELEVATION: 424.7  
 TOC ELEVATION: 428.48 ft

DEPTH W.L.: 40.32  
 ELEVATION W.L.: 388.16  
 DATE W.L.: 5/6/2020  
 TIME W.L.: 10:24

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		
280		276.00 - 286.00 AMPHIBOLITE, black/white/dark green, hornblende gneiss, fine to medium grained, weakly to slightly foliated, poorly jointed, fresh  Approximately 282' amphibolite becomes coarse grained, minor quartz biotite amphiboles and plagioclase  appears to be more dioritic <i>(Continued)</i>	BR	[Dotted Pattern]	138.7 286.00	30	ROTO 10.00 SONIC 10.00	Open Boring - 6" Diameter	<p><b>WELL CASING</b> Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p><b>FILTER PACK</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>FILTER PACK SEAL</b> Interval: N/A Type: N/A Quantity: N/A</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
285	140	286.00 - 301.00 AMPHIBOLITE/HORNBLLENDE GNEISS, quartz and plagioclase, locally contains small pyrite, fresh, medium grained, weak to moderately foliated, poorly jointed							
290	135	289.50: Fracture	BR			31	ROTO 9.60 SONIC 10.00		
295	130								
300	125					32	ROTO 5.00 SONIC 5.00		
		Boring completed at 301.00 ft			123.7				
305	120								
310	115								
315	110								
320	105								

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Logan Hall

GA INSPECTOR: M. Boatman, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20



# RECORD OF BOREHOLE PZ-68

SHEET 1 of 1

PROJECT: Plant Scherer  
 PROJECT NUMBER: 20139484  
 DRILLED DEPTH: 20.00 ft  
 LOCATION: Juliette, GA

DRILL RIG: TSI CC Crawler  
 DATE STARTED: 4/15/20  
 DATE COMPLETED: 4/15/20

NORTHING: 1,125,116.59  
 EASTING: 2,407,181.92  
 GS ELEVATION: 392.1  
 TOC ELEVATION: 395.55 ft

DEPTH W.L.: 14.0'  
 ELEVATION W.L.: 381.40'  
 DATE W.L.: 4/17/2020  
 TIME W.L.: 16:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS		
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC				
0		0.00 - 1.00 CL, sandy SILTY CLAY, 2.5 YR 4/6 red, cohesive, plastic, soft to firm, moist to wet, w-PL, no structure, deeply weathered biotite gneiss, RESIDUUM	CL		391.1 1.00					<p><b>WELL CASING</b> Interval: 0' - 10' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p><b>WELL SCREEN</b> Interval: 10' - 20' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p><b>FILTER PACK</b> Interval: 7.2' - 20' Type: #1 Sand Quantity: 3.5 Bags</p> <p><b>FILTER PACK SEAL</b> Interval: 4' - 7.2' Type: Pel Plug Quantity: 5gal Bucket</p> <p><b>ANNULUS SEAL</b> Interval: 0' - 4' Type: Cement - Bentonite Quantity: 50lbs Cement, 3lbs Bentonite, 6gal Water</p> <p><b>WELL COMPLETION</b> Pad: 4' x 4' Protective Casing: Aluminum</p> <p><b>DRILLING METHODS</b> Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>		
390		1.00 - 5.00 CL, SILTY CLAY, 2.5 YR 4/6 red, cohesive, plastic, firm to stiff, w-PL, no structure, deeply weathered biotite gneiss, RESIDUUM	CL									
5		5.00 - 9.50 ML, CLAYEY SILT, 7.5 YR 4/4 brown, deeply weathered biotite gneiss, mica flakes, no structure, stiff, moist, slightly plastic, w<PL, RESIDUUM	ML		387.1 5.00	1	ROTO 9.00 SONIC 10.00					
10		9.50 - 11.00 SP-SM, SAND and SILTY SAND, fine sand, 7.5 YR 4/4 brown, deeply weathered biotite gneiss, moist to wet, mica flakes, non-plastic, non-cohesive, loose	SP-SM		382.6 9.50							
380		11.00 - 13.00 SM, clayey SILTY SAND, very weathered biotite, gneiss with clay 10 YR 6/3 pale brown, fine to medium grained, some foliation, mottled, moist, loose, non-plastic, SAPROLITE	SM		381.1 11.00							
15		13.00 - 14.00 ML, CLAYEY SILT, some very fine sand, 10 YR 5/4 yellowish brown, very weathered biotite gneiss, some foliation, firm, w<PL, moist	ML		379.1 13.00	2	ROTO 5.00 SONIC 5.00					
375		14.00 - 15.00 SM, SILTY SAND, with clay, some foliation, 10 YR 6/3 pale brown, weathered biotite gneiss, dry	SM		378.1 14.00							
370		15.00 - 20.00 Transitionally weathered rock to unweathered BIOTITE GNEISS, slightly foliated, fine to medium grained, quartz plagioclase, biotite	TWR		377.1 15.00	3	ROTO 2.00 SONIC 5.00					
20		Boring completed at 20.00 ft										
370												
25												
365												
30												
360												
35												
355												
40												

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPJ | PIEDMONT.GDT 8/13/20

LOG SCALE: 1 in = 5 ft  
 DRILLING COMPANY: Cascade Drilling  
 DRILLER: Chris Turner

GA INSPECTOR: S. George, PG  
 CHECKED BY: Rachel P. Kirkman, PG  
 DATE: 5/29/20





# MONITORING WELL DEVELOPMENT DATA SHEET

1 of 2

Project: Plant Scharer  
 Date: 3-19-2020  
 Casing Type: PVC  
 Well/Boring Number: PZ-452  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 116.7 - 171.7  
 Riser Stickup: 2.5  
 Total Well Depth (Lw) in feet: 171.7  
 Depth to Water (Ld) in feet: 21.40  
 Time of Measurement: 9:10

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ld) =$  24.53 Gallons

## FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)	
Before Development	9:55						
	10:05	7.20	244.9	21000	17.01	3.0	
	10:15	7.03	245.1	105.44	16.95	6.0	Surged screen
	10:25	7.06	245.8	51000	16.95	9.0	
	10:35	7.09	221.9	91.0	16.99	12.0	
	10:45	7.13	249.1	68.1	17.00	15.0	Surged screen
	10:55	7.14	245.1	5000	16.96	18.0	
	11:05	7.21	246.6	146	17.04	21.0	
	11:15	7.21	246.3	63.3	17.08	24	Drains pump Surged screen
	11:25	7.21	247.3	28.3	17.23	27	
	11:35	7.25	247.2	21000	17.33	30	
	11:45	7.25	247.3	132	17.31	33	
	11:55	7.26	249.2	84.8	17.33	36	
	12:05	7.28	250.6	30.3	17.40	39	Drains pump Surged screen
	12:15	7.29	249.0	97.7	17.53	42	
12:25	7.29	249.1	35.0	17.63	45		
12:35	7.29	251.1	12.0	17.72	48		

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) Bailer If pumped, pumping rate: 1000 ml/min  
 Well Purged Dry NO Continuous Recharge ✓  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: [Signature]  
 PM's Signature: [Signature]

Date: 3-19-2020  
 Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

2 of 2

Project Plant Scherer  
 Date 3-19-2020  
 Casing Type PVC  
 Well/Boring Number PE-450  
 Casing Diameter in inches (Dr) 2 in  
 Screened Interval 116.7-171.7  
 Riser Stickup 2.5  
 Total Well Depth (Lw) in feet 171.7  
 Depth to Water (Lr) in feet 21.40  
 Time of Measurement 9:10

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lr) =$  2453 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	<u>1245</u>	<u>7.29</u>	<u>257.0</u>	<u>9.62</u>	<u>17.63</u>	<u>51</u>
	<u>1305</u>	<u>7.31</u>	<u>253.1</u>	<u>7.07</u>	<u>17.75</u>	<u>54</u>
	<u>1305</u>	<u>7.32</u>	<u>259.9</u>	<u>4.60</u>	<u>17.73</u>	<u>57</u>

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bauler or pump) 22.5 l/min If pumped, pumping rate 1000 ml  
 Well Purged Dry no Continuous Recharge   
 Notes concerning condition of well, odors, color, etc. \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well

Developer's Signature [Signature] Date 3-19-2020  
 PM's Signature [Signature] Date 5/28/2020



GOLDER

DATE: 3-19-2020

**GROUNDWATER SAMPLING LOG**

Project Name: SCHERER Project /Phase No.: 20138494  
 Well ID: PZ-458 Sampler(s): Darren Cox  
 Well Diameter: 2 inches Initial Depth to Water: 27.90 feet  
 Depth to Bottom: 17.7 feet Water Column Thickness:            feet  
 Pumping Rate: 1000 mL/min System Volume:            mL  
 Well Location:             
 Equipment:           

	±0.1	±0.05	<10	±10% or 0.2		±0.10	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
1822	7.31	254.0	2.52	0.15	17.44	-173.2	27.90

Comments (weather conditions, color, type of sample, purge-water management, etc.):  
START SAMPLING @ 1307

Signature: [Signature] Date: 3-19-2020

QA/QC Sign Off: [Signature] Date: 5/28/2020



Product Name: Low-Flow System

Date: 2020-03-19 13:24:10

Project Information:

Operator Name Darren Cox  
Company Name Golder  
Project Name Plant Scherer  
Site Name Default Site  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model Lamotte2020we

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type LDPE  
Tubing Diameter 0.625 in  
Tubing Length 171.1 ft

Pump placement from TOC 144.1 ft

Well Information:

Well ID PZ-45D  
Well diameter 2 in  
Well Total Depth 171.1 ft  
Screen Length 55 ft  
Depth to Water 27.90 ft

Pumping Information:

Final Pumping Rate 1000 mL/min  
Total System Volume 10.91239 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:12:52	300.15	17.66	7.33	253.92	4.08	27.90	0.15	-180.25
Last 5	13:17:52	600.02	17.55	7.33	254.79	3.26	27.90	0.14	-178.71
Last 5	13:22:52	900.02	17.49	7.31	253.95	2.52	27.90	0.15	-177.21
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.11	0.00	0.86			-0.01	1.54
Variance 2			-0.06	-0.02	-0.84			0.01	1.50

Notes

Grab Samples

# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: <u>1</u> of <u>1</u>
Well ID # <u>P2-450</u>	Date: <u>3-26-20</u>	Water Level (ft): <u>21.45</u>	Time (WL): <u>14:10</u>
Physical Condition of Well	<u>Not Sampled</u>	Weather: <u>Sunny 45°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>165</u>	Water Column (ft):	Well Volume (gal):
Start Purge: <u>17:23</u>	End Purge:	Top of Pump (ft): <u>162'</u>	
Evacuation Method: <u>Low-Flow</u>	Volume Removed (L):		
Evacuation Equipment:	Purging Personnel: <u>C. J. Smith</u>		
SmartTroll serial #: <u>627057</u>	Lamotte serial #: <u>568-0211</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 BTCC)	Purging Rate

No Sample  
Turbidity > 1000  
Will Re-develop

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2 mg/L (whichever is greater; for DO < 0.1 mg/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)
	250 mL plastic	HNO3	Metals App. III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 8020/7470)
	500 mL plastic	-	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radionuclides 226/228 (SW-846 9315/9320)
<u>3</u>	<u>As above</u>		

Signature: \_\_\_\_\_

[Signature]

5/28/2020



GOLDER



MONITORING WELL DEVELOPMENT DATA SHEET

Project: SCS Plant Upgrade  
 Date: 03-27-2020  
 Casing Type: PVC  
 Well/Boring Number: P2-450  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 112.5 - 167.5  
 Riser Stickup: 2.5'  
 Total Well Depth (Lw) in feet: 167.5  
 Depth to Water (Ll) in feet: 21.38  
 Time of Measurement: 07:22

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ll) =$  13.82 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)	DTW	Pump Run Status
Before Development	03-27 10:05	7.04	243.0	2110	17.92	5		
	10:10	6.96	246.7	2110	17.71			
	10:15	6.97	244.4	2110	17.70	10	35.5	
	10:20	6.96	244.1	2110	17.68	15	35.5	
	10:25	7.00	245.5	2110	17.69	20	35.35	
	10:30	7.02	244.2	2110	17.70	25	35.55	
	10:35	7.08	244.1	2110	17.61	30	35.11	
	11:05	7.03	247.0	2100	17.70	35	34.65	
	11:15	7.06	248.4	61.3	17.62	40	34.48	5'
	11:25	7.05	245.1	2100	17.75	45	34.12	
	11:35	7.05	237.9	49.0	17.79	50	34.20	
	11:45	7.00	246.4	2100	17.74	55	34.20	
	11:55	7.10	245.6	72.3	17.88	60	34.33	
	12:05	7.13	247.9	68.7	18.07	65	34.90	
	12:15	7.12	245.6	46.4	18.00	70	34.40	10'
	12:25	7.13	250.5	2100	18.11	75	36.20	
12:35	7.13	247.2	2100	18.15	80	35.10		

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) RECIRCULATION if pumped, pumping rate: 0.5 gpm  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: NA  
 A total of 75 well volumes were removed during the development of this well.

Developer's Signature: [Signature] Date: 04/01/20  
 PM's Signature: [Signature] Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

Project: SCS PUMP STATION  
 Date: 03/27/2020  
 Casing Type: PVC  
 Well/Boring Number: PZ-450  
 Casing Diameter in inches (Ø): 2 in  
 Screened Interval: 112.5 - 167.5  
 Riser Stickup: NA  
 Total Well Depth (Lw) in feet: 167.5  
 Depth to Water (Lf) in feet: 21.28  
 Time of Measurement: 09:42

Volume of water in well, using  $V=0.041 (Dc)^2 (Lw - Lf) =$  23.82 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity (NTU)	Temp (°C)	Volume (gallons)	DTW	PUMP FROM BOTTOM
Before Development	03-27 12:45	7.12	251.1	813	10.28	85	35.20	10'
	12:55	7.10	249.7	72.3	10.23	90	35.30	15'
	13:05	7.13	252.7	83.7	10.32	95	36.10	
* CHAIR B.T. AREA FLUXES	13:15	7.12	257.0	-28*	10.11	100	36.80	
	13:25	7.12	247.8	30.6	10.15	105	37.05	20'
	13:35	7.12	247.4	27000	10.12	110	35.60	
	13:45	7.12	242.7	21000	10.30	115	35.90	
	13:55	7.12	242.5	21.3	10.17	120	38.10	25'
	14:05	7.11	247.1	21000	10.26	125	41.0	
CHAIR B.T. AREA	14:15	7.10	242.6	-39	10.27	130	41.4	
	14:25	7.10	249.5	21000	10.27	135	42.6	
	14:35	7.09	246.2	-76	10.11	140	41.3	
	14:45	7.11	245.3	21000	10.15	145	41.9	
	14:55	7.07	247.0	-74	10.15	150	41.55	
	15:05	7.09	248.1	21000	10.18	155	42.20	
	15:15	7.06	245.6	-88	10.17	160	41.80	
	15:25	7.07	249.1	21000	10.23	165	41.95	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) Recirculated Pump If pumped, pumping rate: 0.5 gpm  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: NA  
 A total of 77 well volumes were removed during the development of this well.

Developer's Signature \_\_\_\_\_  
 PM's Signature \_\_\_\_\_

Date: 03/01/20  
 Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

Project: SCS Pump SUDAN  
 Date: 03-27-20  
 Casing Type: PVC  
 Well/Boring Number: P2-45D  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 112.5-167.5  
 Riser Stickup: NA  
 Total Well Depth (Lw) in feet: 167.5  
 Depth to Water (Lf) in feet: 21.38  
 Time of Measurement: 07:42

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  23.82 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity (NTU)	Temp (°C)	Volume (gallons)	DTW	PUMP FROM BOTTOM
Before Development	03-27 15:25	7.09	245.6	13.5	18.08	170	41.4	25'
	03-30 15:28	6.93	212.0	10.22	20.64	170	21.40	4"
	13:20	6.96	243.4	21000	18.64	--	24.15	
	13:30	7.04	245.2	21000	18.48	175	24.00	
	13:50	7.10	248.4	21000	18.16	180	24.30	
	14:10	7.27	245.2	21100	18.73	185	24.30	
	14:30	7.14	246.1	21000	18.72	190	24.10	
	14:50	7.20	246.7	21000	18.63	195	24.90	
	15:10	7.21	245.6	21000	18.63	200	25.25	
	15:30	7.21	245.7	65	18.57	205	26.00	
	15:40	7.15	244.9	43.5	18.35	210	26.15	more of 50'
	15:50	7.15	245.1	33.4	18.22	215	40.2	50'
	15:58	7.11	246.1	21000	18.72	220	41.5	
	16:02	7.11	241.7	264	18.50	225	41.8	
	16:14	7.12	244.2	30.6	18.32	235	42.3	45'
	16:26	7.10	244.6	13.72	18.22	245	42.0	45'
16:36	7.14	243.2	11.26	18.20	250	42.0	45'	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) PUMP If pumped, pumping rate: 03-30: 850 gal/min  
 Well Purged Dry NO Continuous Recharge 15:40: 3000 gal/min  
 Notes concerning condition of well, odors, color, etc.: 03-30, BELOW PUMP WATER  
 A total of 775 well volumes were removed during the development of this well.

Developer's Signature \_\_\_\_\_ Date: 03/27/20  
 PM's Signature \_\_\_\_\_ Date: 5/28/2020

*[Handwritten signature]*



MONITORING WELL DEVELOPMENT DATA SHEET

Project: SCS Plant SUDANA  
 Date: 03-31-20  
 Casing Type: PVC  
 Well/Boring Number: P2-450  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 112.5 - 167.5  
 Riser Stickup: 2.5'  
 Total Well Depth (Lw) in feet: 167.5  
 Depth to Water (Lf) in feet: 23.45  
 Time of Measurement: 08:19

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  23.48 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity (NTU)	Temp (°C)	Volume (gallons)	DTW	Pump from Bottom
Before Development	03-31 08:22	7.41	244.6	12.11	16.18	250	23.45	35' 55"
	08:26	7.46	246.2	96.0	17.11	255	34.70	45' 55"
	08:32	6.97	244.7	92.0	17.17	260	36.70	
	08:44	7.01	248.3	61.3	17.21	270	37.40	
	08:56	6.98	247.9	24.7	17.25	280	38.35	390' 50"
	09:04	6.99	248.0	24.22	17.37	285	37.20	40' 50"
	09:10	6.97	248.0	7.75	17.39	290	37.20	45'
	09:17	6.90	247.8	5.87	17.44	295	36.22	45'
	09:27	6.94	242.6	4.26	17.39	300	37.20	40'
	09:32	6.94	242.1	4.69	17.36	300	33.20	40' → 25'
	09:40	6.96	242.2	6.17	17.43	310	32.94	35'
	09:48	6.96	242.0	57.2	17.52	310	33.40	
	09:56	6.95	246.6	13.8	17.38	320	33.42	
	10:03	6.96	246.3	8.35	17.52	325	32.65	
	10:10	6.96	246.2	10.61	17.57	330	32.70	→ 20'
	10:20	7.00	240.2	13.97	17.60	335	32.68	30'
	10:27	7.00	243.1	8.8	17.57	340	33.10	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) VACUUM If pumped, pumping rate: 0.35 gpm @ 4.71 ft<sup>3</sup>/min

Well Purged Dry NO Continuous Recharge YES

Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_

A total of 775 well volumes were removed during the development of this well.

Developer's Signature \_\_\_\_\_ Date: 4/1/20

PM's Signature \_\_\_\_\_ Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

Project: S&S Plant S&S/AR/01  
 Date: 03-21-20  
 Casing Type: PVC  
 Well/Boring Number: PZ-450  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 112.5 - 167.5  
 Riser Stickup: 2.5'  
 Total Well Depth (Lw) in feet: 167.5  
 Depth to Water (Lf) in feet: 23.45  
 Time of Measurement: 08:19

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  23.42 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity ( $\mu$ S/cm)	Clarity (NTU)	Temp ( $^{\circ}$ C)	Volume (gallons)	DTW	Pump From Bottom	
Before Development	10:34	7.01	244.2	51.9	17.58	345	33.10	20'	
	10:43	7.01	244.8	20.2	17.61	350	32.05		
	10:52	7.03	244.4	11.5	17.63	355	32.10		
	11:00	7.01	244.9	14.35	17.72	360	32.0	25'	
	11:09	7.02	237.6	9.63	17.60	365	32.05	25'	
	11:17	7.04	243.1	12.74	17.53	370	32.48		
	11:25	7.02	244.1	11.24	17.55	375	32.90		
	11:33	7.02	247.6	6.10	17.43	380	33.05		
	11:40	7.02	243.4	5.9	17.37	385	33.05		
	11:56	7.03	248.7	9.67	17.26	395	33.00		
	12:10	7.04	246.1	87.0	17.33	405	33.00		
	12:26	7.04	248.7	38.5	16.92	415	32.35		
	12:40	7.05	247.2	20.1	16.76	425	32.45		
	12:48	Pump	12.6	256.0	13.0	15.08	425	27.80	
	13:46	7.01	240.1	13.0	15.08	425	27.80		
	13:52	7.11	249.4	24.5	16.90	430	29.60		
14:08	7.03	241.8	41.7	17.07	440	31.30	15'		

(Fill in one or more of the above columns depending on available equipment)

Method of purging (baller or pump) WATER If pumped, pumping rate: 0.25 - 0.25 gpm

Well Purged Dry NO Continuous Recharge YES

Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_

A total of 175 well volumes were removed during the development of this well.

Developer's Signature \_\_\_\_\_

Date: 03/21/20

PM's Signature \_\_\_\_\_

Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

Project: SCS Pura Singara  
 Date: 03-31-20  
 Casing Type: PVC  
 Well/Boring Number: PZ-450  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 112.5 - 167.5  
 Riser Stickup: 2.5'  
 Total Well Depth (Lw) in feet: 167.5  
 Depth to Water (Lf) in feet: 23.75  
 Time of Measurement: 08:19

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  23.42 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity (NTU)	Temp (°C)	Volume (gallons)	DTW	PUMP FROM BOTTOM
Before Development	14:24	7.04	243.1	16.2	17.25	450	31.30	25'
	14:40	7.04	243.2	17.8	17.27	460	31.58	→ 20'
	14:50	7.08	239.6	1096	17.37	465	31.20	20'
	14:59	7.06	243.4	994	17.36	470	31.20	
	15:17	7.09	242.5	26.0	17.48	480	31.05	
	15:35	7.05	242.3	12.2	17.47	470	31.05	→ 15'
	15:47	7.07	240.0	941	17.52	496	31.10	15'
	15:57	7.07	241.2	1042	17.78	500	29.95	
	16:17	7.05	241.7	30.8	17.52	510	29.82	
	16:37	7.06	243.0	12.22	17.57	520	29.70	→ 10'
	16:53	7.09	240.9	7.8	17.50	523	28.20	
	17:06	7.07	240.5	42.5	17.48	530	28.42	
	17:18	7.05	241.1	24.1	17.52	535	28.40	
	04-01 08:24	7.90	241.2	14.3	7.75	535	21.35	
	08:33	7.10	242.0	11.8	16.40	540	27.60	→ 5'
08:44	7.02	252.0	1027	16.47	575	27.60	5'	
08:54	7.02	250.1	7.1	16.54	550	27.95		

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) WATER If pumped, pumping rate: 0.25 - 0.83 gpm  
 Well Purged Dry no Continuous Recharge Yes  
 Notes concerning condition of well, odors, color, etc: \_\_\_\_\_  
 A total of 77 well volumes were removed during the development of this well.

Developer's Signature

Date: 04/01/20

PM's Signature

Date: 5/28/2020

*[Handwritten signatures]*





**MONITORING WELL DEVELOPMENT DATA SHEET**

Project: Plant Scherer  
 Date: 04.01.20  
 Casing Type: PVC  
 Well/Boring Number: P2-45D  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 112.5 - 167.5  
 Riser Stickup: 2.5'  
 Total Well Depth (Lw) in feet: 167.5  
 Depth to Water (Lf) in feet: 21.55  
 Time of Measurement: 08:24

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  23.79 Gallons

**FIELD MEASUREMENT OF PHYSICAL PARAMETERS**

	Time	pH (S.U.)	Conduc-tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)	DTW	PUMP FROM BOTTOM
Before Development 04.01	09:14	7.01	249.6	49.2	16.72	560	28.05	5'
	09:34	7.05	249.8	18.8	16.63	570	27.40	→ 4"
	09:49	7.02	250.8	65	16.87	575	27.65	4"
	09:59	7.00	251.9	91.7	16.98	580	27.85	
	10:19	7.00	249.3	39.7	17.08	590	28.00	
	10:39	7.01	248.8	31.1	17.07	600	28.10	
	10:59	7.00	248.1	10.0	17.16	610	28.20	
	11:19	7.01	247.3	7.78	17.21	620	28.25	
	11:36	6.99	248.9	732	17.52	625	25.95	
	11:51	7.07	249.7	-9	17.48	630	26.0	
	12:05	7.07	246.8	45.8	17.57	635	26.0	
	12:33	7.06	245.7	20.4	17.58	645	26.5	
	13:01	7.06	246.1	13.52	17.66	655	25.6	→ 5'
	13:19	7.08	247.3	48.5	17.54	660	28.10	5'
	13:34	7.06	242.5	22.2	17.62	665	28.28	
13:43	7.08	246.8	12.4	17.56	670	28.38		
14:36	7.08	243.6	5.44	17.61	700	28.35		

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) WATERA If pumped, pumping rate: 0.25 - 0.83 gpm  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of 775 well volumes were removed during the development of this well.

Developer's Signature [Signature] Date: 04/01/20  
 PM's Signature [Signature] Date: 5/28/2020



### MONITORING WELL DEVELOPMENT DATA SHEET

Project: Plant Scherer  
 Date: 04.01.20  
 Casing Type: PVC  
 Well/Boring Number: PZ-450  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 112.5 - 167.5  
 Riser Stickup: HT 2.5'  
 Total Well Depth (Lw) in feet: 167.5  
 Depth to Water (Ld) in feet: 21.55  
 Time of Measurement: 08:24

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ld) =$  23.79 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc-tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)	DTW	PUMP
								FRONT BOTTOM
Before Development 04.01	15:32	6.97	251.8	86.6	17.59	705	30.70	35'
	15:40	7.02	241.8	90.6	17.55	710	30.55	
	17:24	7.07	238.5	81.8	17.85	775	30.40	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) W/TE/AQ If pumped, pumping rate: 0.25 - 0.83 gpm  
 Well Purged Dry NO Continuous Recharge YES

Notes concerning condition of well, odors, color, etc.:  
 A total of 775 well volumes were removed during the development of this well.

Developer's Signature [Signature] Date 04/01/20  
 PM's Signature [Signature] Date 5/28/2020

Product Name: Low-Flow System

Date: 2020-04-01 15:22:42

Project Information:

Operator Name Chris Tidwell  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Sample Pro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 162 ft

Pump placement from TOC 162 ft

Well Information:

Well ID PZ45D (162)  
Well diameter 2 in  
Well Total Depth 167.5 ft  
Screen Length 55 ft  
Depth to Water 23.52 ft

Pumping Information:

Final Pumping Rate 450 mL/min  
Total System Volume 0.9380746 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 12 in  
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:58:53	899.93	17.21	7.13	242.79	4.98	24.01	2.86	49.12
Last 5	15:03:53	1199.93	17.31	7.13	242.45	4.25	24.03	3.99	45.76
Last 5	15:08:53	1499.93	17.32	7.15	242.30	3.73	23.99	4.18	48.02
Last 5	15:13:53	1799.93	17.39	7.13	242.45	4.60	24.02	4.05	48.72
Last 5	15:18:53	2099.94	17.41	7.13	242.49	--	--	3.82	52.43
Variance 0			0.01	0.02	-0.15			0.19	2.26
Variance 1			0.06	-0.01	0.15			-0.12	0.70
Variance 2			0.03	-0.00	0.05			-0.23	3.72

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-04-01 17:56:40

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Sample Pro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 132 ft

Pump placement from TOC 132 ft

Well Information:

Well ID PZ-45D(132)  
Well diameter 2 in  
Well Total Depth 167.50 ft  
Screen Length 55 ft  
Depth to Water 25.69 ft

Pumping Information:

Final Pumping Rate 500 mL/min  
Total System Volume 0.8041719 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 12.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	17:33:47	300.03	17.97	7.14	236.78	8.27	23.86	3.55	61.47
Last 5	17:38:47	600.02	18.03	7.19	236.16	10.13	23.88	4.11	61.13
Last 5	17:43:47	900.02	18.01	7.20	235.85	5.77	23.89	4.09	58.83
Last 5	17:48:47	1199.95	17.85	7.20	235.27	4.93	23.87	3.98	57.70
Last 5	17:53:47	1499.95	17.73	7.18	236.03	4.05	23.85	3.81	56.78
Variance 0			-0.02	0.02	-0.31			-0.02	-2.30
Variance 1			-0.16	-0.00	-0.58			-0.11	-1.14
Variance 2			-0.11	-0.02	0.77			-0.17	-0.92

Notes

Grab Samples



MONITORING WELL DEVELOPMENT DATA SHEET

1 of 2

Project: Plant Scherer  
 Date: 3-19-2020  
 Casing Type: PVC  
 Well/Boring Number: PZ-460  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 28.32 - 58.32  
 Riser Stickup: 2.5  
 Total Well Depth (Lw) in feet: 58.32  
 Depth to Water (Ll) in feet: 10.30  
 Time of Measurement: 1455

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ll) =$  7.84 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity ( $\mu$ S/cm)	Clarity/Turbidity (NTU)	Temp ( $^{\circ}$ C)	Volume (gallons)	
Before Development	1525	7.21	320.9	63.1	19.01	2.0	SURGED SCREEN
To 2nd	1535	7.20	323.8	76.0	18.78	4.0	
	1545	7.20	306.0	61.5	19.05	6.0	SURGED SCREEN
	1605	7.23	297.3	21800	19.02	8.0	
	1615	7.25	158.4	87.0	18.87	10.0	
	1625	7.24	578.7	91.6	18.78	12.0	SURGED SCREEN
min. of action 2nd	1635	7.66	402.6	24000	19.27	14.0	Surged Screen
	1645	7.62	396.2	76	20.29	16.0	
	1655	7.70	363.2	77.0	20.21	18.0	SURGED SCREEN
	1745	7.75	363.4	64.1	20.61	20.0	
3-20 1st	1715					22.0	
	1725						
	1735						
3-20 2nd	1755	7.35	369.2	77.6	18.82	24.0	SURGED SCREEN
	1815	7.19	354.7	68.5	16.96	26.0	
	1835	7.22	387.6	81.2	16.99	28.0	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) RECHARGE If pumped, pumping rate: 800 mL  
 Well Purged Dry PMU Continuous Recharge   
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: [Signature] Date: 3-20-2020  
 PM's Signature: [Signature] Date: 5/28/2020



**MONITORING WELL DEVELOPMENT DATA SHEET**

PRIVILEGED AND CONFIDENTIAL  
 ATTORNEY-CLIENT PRIVILEGED  
 PREPARED IN ANTICIPATION OF LITIGATION

2 OF 2

Project: Plant Scherer  
 Date: 3-20-2020  
 Casing Type: PVC  
 Well/Flaring Number: P2-460  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 28.32 - 30.32  
 Riser Stackup: 2.5  
 Total Well Depth (Lw) in feet: 58.32  
 Depth to Water (Ld) in feet: 11.57  
 Time of Measurement: 8:55

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ld) =$  — Gallons

**FIELD MEASUREMENT OF PHYSICAL PARAMETERS**

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	9:35	7.37	376.2	112	17.19	30.0
	9:45	7.49	365.1	65.1	17.85	31.0
	9:55	7.35	367.3	53.6	17.84	32.0
	10:05	7.63	361.0	42.5	17.71	33.0
	10:15	7.58	374.2	22.7	18.10	34.0
	10:25	7.78	372.4	8.92	18.22	35.0
	10:35	7.93	376.3	9.11	20.29	36.0
	10:45	7.82	372.6	8.18	19.48	37.0

- CUT PUMP TO 480AL

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump): Recirculate If pumped, pumping rate: 800 ml/min → 480 ml/min  
 Well Purged Dry: NO Continuous Recharge: ✓  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: [Signature] Date: 3-20-2020  
 PM's Signature: [Signature] Date: 5/28/2020



Product Name: Low-Flow System

Date: 2020-03-20 11:01:45

Project Information:

Operator Name Darren Cox  
Company Name Golder  
Project Name Plant Scherer  
Site Name Default Site  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model Lamotte2020we

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type LDPE  
Tubing Diameter 0.625 in  
Tubing Length 58.32 ft

Pump placement from TOC 43.32 ft

Well Information:

Well ID PZ-46D  
Well diameter 2 in  
Well Total Depth 58.32 ft  
Screen Length 30 ft  
Depth to Water 40.42 ft

Pumping Information:

Final Pumping Rate 400 mL/min  
Total System Volume 4.108421 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 4.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:50:28	300.12	20.43	7.72	374.04	7.39	40.27	3.04	-36.64
Last 5	10:55:28	600.02	20.65	7.71	373.82	6.45	40.25	2.84	-40.62
Last 5	11:00:28	900.02	21.09	7.72	371.01	5.22	40.28	2.74	-41.27
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.22	-0.01	-0.22			-0.20	-3.98
Variance 2			0.45	0.01	-2.80			-0.10	-0.65

Notes

Grab Samples





MONITORING WELL DEVELOPMENT DATA SHEET

1 of 1

Project: Plant Scheme  
 Date: 3-17-2020  
 Casing Type: PVC  
 Well/Boring Number: PZ-47D  
 Casing Diameter in inches (Or): 2 in  
 Screened Interval: 12.85 - 28.85  
 Riser Stickup: 2.5  
 Total Well Depth (Lw) in feet: 28.85  
 Depth to Water (Lf) in feet: 4.65  
 Time of Measurement: 1445

Volume of water in well, using  $V=0.041 (Dc)^2 (Lw - Lf) =$  3.3 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)	
Before Development	1505	8.06	210.6	117	14.68	3.5	SURGED SCREEN cut back to 400ML/min
	1515	7.60	236.9	79.2	14.61	3.0	
DAY 1	1525	7.75	210.6	117	14.68	3.5	SURGED SCREEN recovered 1600 ground entry
	1535	7.83	197.9	21000	15.64	6.5	
DAY 2 2-10-20	1545	7.46	202.2	21000	15.48	7.5	SURGED SCREEN
	1600	8.07	316.4	790	16.33	8.0	
DAY 2 2-10-20	1515	8.06	210.6	117	14.68	3.5	SURGED SCREEN
	1525	7.11	530.6	64.1	18.72	9.0	
	1535	6.85	601.3	36.4	19.00	10.0	
	1545	6.81	627.0	35.1	21.36	12.0	
	1555	6.74	616.2	21000	18.36	13.0	
	1605	6.86	602.3	71.2	19.37	14.0	
	1615	6.77	572.7	38.5	19.18	15.0	
	1625	6.66	405.4	18.7	19.74	16.0	
	1635	6.73	361.9	9.85	20.26	17.0	
	1645	6.76	359.1	8.72	19.45	18.0	
	1655	6.76	366.6	6.13	20.09	19.0	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) REGULATED PUMP If pumped, pumping rate: 640 ML → 400 ML/min  
 Well Purged Dry YES Continuous Recharge NO  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: [Signature] Date: 3-18-2020  
 PM's Signature: [Signature] Date: 5/28/2020



GOLDER

DATE: 3-18-2020

GROUNDWATER SAMPLING LOG

Project Name: SIERRA Project /Phase No.: \_\_\_\_\_  
 Well ID: 12-47D Sampler(s): Darren Cox  
 Well Diameter: 2 inches Initial Depth to Water: 19.7 feet  
 Depth to Bottom: 28.95 feet Water Column Thickness: \_\_\_\_\_ feet  
 Pumping Rate: 750 mL/min System Volume: \_\_\_\_\_ mL  
 Well Location: \_\_\_\_\_  
 Equipment: \_\_\_\_\_

	+/- 0.1	+/- 0%	<10	+/- 10% @ 0.2		+/- 10	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
1711	6.80	398.8	4.73	8.34	20.62	41.40	30.19

Comments (weather conditions, color, type of sample, purge-water management, etc.):  
SIERRA Sampling 1658

Signature:  Date: 3-18-2020  
 QA/QC Sign Off:  Date: 5/28/2020

Product Name: Low-Flow System

Date: 2020-03-18 17:12:29

Project Information:

Operator Name Darren Cox  
Company Name Golder  
Project Name Plant Scherer  
Site Name Default Site  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model Lamotte2020we

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type LDPE  
Tubing Diameter 0.625 in  
Tubing Length 28.85 ft

Pump placement from TOC 22.85 ft

Well Information:

Well ID PZ-47D  
Well diameter 2 in  
Well Total Depth 28.85 ft  
Screen Length 15 ft  
Depth to Water 19.7 ft

Pumping Information:

Final Pumping Rate 350 mL/min  
Total System Volume 2.330508 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 6 in  
Total Volume Pumped 5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	17:01:15	300.03	20.74	6.75	384.25	5.56	20.03	8.33	45.05
Last 5	17:06:15	600.02	20.64	6.78	397.59	5.21	20.11	8.38	46.63
Last 5	17:11:15	900.02	20.65	6.80	398.80	4.73	20.19	8.34	47.38
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.10	0.02	13.34			0.05	1.58
Variance 2			0.01	0.02	1.21			-0.04	0.75

Notes

Grab Samples



MONITORING WELL DEVELOPMENT DATA SHEET

Project: Plant Scherer  
 Date: 3-21-2020  
 Casing Type: PVC  
 Well/Boring Number: DZ-48 S  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 73.75 - 83.75  
 Riser Stickup: 2.9'  
 Total Well Depth (Lw) in feet: 83.75  
 Depth to Water (Lf) in feet: 30.84  
 Time of Measurement: 12:42

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  8.6 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conduc-tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)	
13:05						BEGAN DUMPING @ 1500 ML/MIN
13:15	6.66	306.5	44.9	18.25	4.0	SURGED SCREEN
13:25	6.52	371.5	711	18.27	8.0	
13:35	6.49	314.9	74.8	18.25	12.0	SURGED SCREEN
13:45	6.51	328.6	71000	18.34	16.0	
13:55	6.49	283.5	117	18.26	20.0	
14:05	6.48	269.9	39.4	18.26	24.0	SURGED SCREEN
14:15	6.48	263.3	112	18.35	28.0	
14:25	6.44	252.8	80.1	18.30	32.0	SURGED SCREEN
14:35	6.45	261.3	807	18.35	36.0	
14:45	6.45	242.5	71.6	18.31	40.0	
14:55	6.41	235.5	32.5	18.35	44.0	
15:05	6.43	234.7	16.5	18.34	48.0	
15:15	6.41	231.7	7.91	18.39	52.0	
15:25	6.40	222.6	5.55	18.99	56.0	
15:35	6.41	231.4	10.86	18.90	60.0	
15:45	6.41	233.9	2.91	19.01	64.0	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) BELLINGER If pumped, pumping rate: 1500 mL/min  
 Well Purged Dry NO Continuous Recharge YES

Notes concerning condition of well, odors, color, etc.: -  
 A total of 7.4 well volumes were removed during the development of this well.

4' x 4' CONCRETE PAD INSTALLED, PROTECTIVE CASING W/ LOCK CAP INSTALLED

Developer's Signature [Signature] Date: 3-21-2020  
 PM's Signature [Signature] Date: 5/28/2020

STILL NEEDS STONE AROUND THE PVC CASING ALONG WITH A WEEP HOLE TO BE INSTALLED. ALSO NEEDS BUMPER POSTS AND WELL PLACARD



GOLDER

DATE: 3-21-2020

GROUNDWATER SAMPLING LOG

Project Name: KANT SCHERR Project /Phase No.: 20133494  
 Well ID: P2-4B S Sampler(s): Darren Cox KYLE COOLMAN  
 Well Diameter: 2 inches Initial Depth to Water: 30.84 feet  
 Depth to Bottom: 83.75 feet Water Column Thickness: 52.91 feet  
 Pumping Rate: 1000 mL/min System Volume: — mL  
 Well Location: \_\_\_\_\_  
 Equipment: SMARTROL, MD10, RECLAIMER, LAMOTTE 2020WB

	±0.1	±0.5%	<10	±10% or 0.2		±1.0	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
15:46	6.50	231.10	4.54	3.76	18.67	30.20	32.55

Comments (weather conditions, color, type of sample, purge-water management, etc.):  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature: [Signature] Date: 3-21-2020  
 QA/QC Sign Off: [Signature] Date: 5/28/2020

Product Name: Low-Flow System

Date: 2020-03-21 16:04:32

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 20138494  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type GeoTech Reclaimer  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 78.75 ft

Pump placement from TOC 78.75 ft

Well Information:

Well ID PZ-48S  
Well diameter 2 in  
Well Total Depth 83.75 ft  
Screen Length 10 ft  
Depth to Water 30.84 ft

Pumping Information:

Final Pumping Rate 1000 mL/min  
Total System Volume 0.4414946 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 20.52 in  
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:51:25	300.09	18.96	6.39	232.23	4.88	32.55	3.77	30.77
Last 5	15:56:25	600.01	18.90	6.39	233.40	2.91	32.55	3.79	31.30
Last 5	16:01:25	900.00	18.67	6.40	231.09	4.54	32.55	3.76	30.21
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.06	-0.00	1.17			0.02	0.53
Variance 2			-0.23	0.01	-2.30			-0.03	-1.08

Notes

Well development readings

Grab Samples



MONITORING WELL DEVELOPMENT DATA SHEET

1 of 1

Project Plant Scherer  
 Date 3-18-2020  
 Casing Type: PVC  
 Well/Boring Number P2-47D  
 Casing Diameter in inches (Or) 2 in  
 Screened Interval 79.80 - 109.80  
 Riser Stickup 2.5  
 Total Well Depth (Lw) in feet 109.80  
 Depth to Water (Lr) in feet 4.60  
 Time of Measurement 905

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lr) =$  17.17 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc-ivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)	
Before Development	1010	7.30	295	5100	16.89	3.0	
	1020	7.37	294.7	15.4	16.42	7.0	Submersible Screen
	1030	7.36	296.0	12.7	16.64	10.0	
	1040	7.40	294.6	38.6	16.64	13.0	Submersible Screen 7' from pump
	1050	7.41	295.1	81.0	16.64	17.0	
	1100	7.41	299.3	13.7	16.75	30.0	Submersible Screen
	1110	7.42	294.3	26.2	16.76	23.0	
	1120	7.43	293.7	7.8	16.76	26.0	
	1130	7.44	293.1	38.8	16.75	29.0	more pump, submersible screen
	1140	7.44	293.8	30.1	16.71	32.0	
	1150	7.46	292.6	9.8	16.70	35.0	
	1300	7.45	292.5	7.59	16.70	38.0	
	1700	7.46	292.2	6.03	16.79	41.0	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bater or pump) Recharge If pumped, pumping rate: 850 ml/min  
 Well Purged Dry No Continuous Recharge ✓  
 Notes concerning condition of well, odors, color, etc: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature [Signature] Date 3-18-2020  
 PM's Signature [Signature] Date 5/28/2020



GOLDER

DATE: 3-18-2020

GROUNDWATER SAMPLING LOG

Project Name: AUNT SCHLACK Project /Phase No.: 7039484  
Well ID: P2-49D Sampler(s): Darren Cox  
Well Diameter: 2 inches Initial Depth to Water: 5.30 feet  
Depth to Bottom: 109.80 feet Water Column Thickness: \_\_\_\_\_ feet  
Pumping Rate: 950 mL/min System Volume: \_\_\_\_\_ mL  
Well Location: \_\_\_\_\_  
Equipment: \_\_\_\_\_

	<small>+/- 0.1</small>	<small>+/- 0.5</small>	<small>&lt;10</small>	<small>+/- 10% or 0.2</small>		<small>+/- 10</small>	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
1235	7.47	291.50	4.72	1.57	16.75	-730	5.30

Comments (weather conditions, color, type of sample, purge-water management, etc.):  
SEAN SPOLZELL 12:10

Signature: [Signature] Date: 3-18-2020  
QA/QC Sign Off: [Signature] Date: 5/28/2020



Product Name: Low-Flow System

Date: 2020-03-18 12:26:33

Project Information:

Operator Name Darren Cox  
Company Name Golder  
Project Name Plant Scherer  
Site Name Default Site  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model Lamotte2020we

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type poly  
Tubing Diameter 0.625 in  
Tubing Length 109.80 ft

Pump placement from TOC 94.80 ft

Well Information:

Well ID PZ-49D  
Well diameter 2 in  
Well Total Depth 109.80 ft  
Screen Length 30 ft  
Depth to Water 5.30 ft

Pumping Information:

Final Pumping Rate 850 mL/min  
Total System Volume 7.214188 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 12.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:15:09	300.16	16.73	7.47	291.71	5.54	5.30	1.40	-7.04
Last 5	12:20:09	600.02	16.77	7.47	291.54	4.27	5.31	1.39	-7.30
Last 5	12:25:09	900.02	16.75	7.47	291.50	4.72	5.30	1.37	-7.27
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.04	-0.00	-0.17			-0.00	-0.26
Variance 2			-0.02	0.00	-0.04			-0.02	0.03

Notes

Grab Samples

MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3/21/20  
 Casing Type: PVC  
 Well/Boring Number: P2-495  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: ~2.5  
 Total Well Depth (Lw) in feet: 28.93  
 Depth to Water (Lr) in feet: 6.50  
 Time of Measurement: 1150

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lr) =$  4.7 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)	
1215	6.44	576.5	64	17.87	2.4	*SURGED SCREEN
1235	6.52	535.7	2482	18.21	5.2	
1245	6.52	529.9	841	18.00	7.8	
1255	6.57	464.0	92.8	18.3	10.4	*SURGED SCREEN
1305	6.60	484.8	108	18.03	13	
1315	6.63	434.4	44	18.16	15.6	*SURGED SCREEN
1325	6.64	428.3	948	18.12	18.2	
1335	6.65	415.7	91	18.43	20.8	
1345	6.70	387.7	43.9	18.44	23.2	*SURGED SCREEN
1355	6.68	282.1	45	18.83	25.8	
1405	6.71	307.5	40.9	18.39	28.4	
1415	6.71	370.2	28.5	18.55	31.0	
1425	6.71	344.9	12.0	18.61	33.6	
1435	6.72	301.4	10.82	18.39	36.2	
1445	6.72	312.1	7.19	18.60	38.8	
1455	6.73	321.1	6.68	18.61	41.4	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump): RECLAIMER If pumped, pumping rate: 1000 mL/MIN  
 Well Purged Dry: NO Continuous Recharge: YES  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: [Signature] Date: 3/21/20  
 PM's Signature: [Signature] Date: 5/28/2020

MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3/21/20  
 Casing Type: PVC  
 Well/Boring Number: P2-495  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: 2.5  
 Total Well Depth (Lw) in feet: 28.93  
 Depth to Water (Ld) in feet: 6.50  
 Time of Measurement: 1150

Volume of water in well, using  $V=0.041(Dr)^2(Lw-Ld) =$  4.7 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	<u>1505</u>	<u>6.73</u>	<u>338.6</u>	<u>6.38</u>	<u>18.24</u>	<u>44.0</u>
	<u>1515</u>	<u>6.74</u>	<u>329.2</u>	<u>6.11</u>	<u>18.30</u>	<u>46.6</u>
	<u>1525</u>	<u>6.72</u>	<u>339.4</u>	<u>4.94</u>	<u>18.03</u>	<u>49.2</u>
	<u>* SWITCHED TO SMARTROLL*</u>					

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) RECLAIMER If pumped, pumping rate: 1000 mL/MIN  
 Well Purged Dry \_\_\_\_\_ Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature [Signature] Date: 3/21/20  
 PM's Signature [Signature] Date: 5/28/2020



**GOLDER**

DATE: 3/21/20

GROUNDWATER SAMPLING LOG

Project Name: PLANT SCHERER Project /Phase No.:                       
 Well ID: PZ-495 Sampler(s): ~~DAVID~~ A. HOWARD  
 Well Diameter: 2 inches Initial Depth to Water: 6.50 feet  
 Depth to Bottom: 28.93 feet Water Column Thickness: 22.43 feet  
 Pumping Rate: 1000 mL/min System Volume:                      mL  
 Well Location:                       
 Equipment: SMARTROLL, MP50, RECLAIMER, LAMOTT 2020 WG

Time	+/- 0.1	+/- 5%	+/- 10	+/- 10% or 0.2	Temp. (oC)	+/- 10	DTW (feet)
	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)		ORP (millivolts)	
1625	STARTED SMARTROLL READINGS						
1650	6.73	317.0	3.33	0.63	18.38	-30.20	12.01
/							

Comments (weather conditions, color, type of sample, purge-water management, etc.):

Signature: *[Handwritten Signature]*

Date: 3/21/20

QA/QC Sign Off: *[Handwritten Signature]*

Date: 5/28/2020

Product Name: Low-Flow System

Date: 2020-03-21 15:53:21

Project Information:

Operator Name A. Howard  
Company Name Golder  
Project Name 20138494  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type GeoTech Reclaimer  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 23 ft

Pump placement from TOC 23 ft

Well Information:

Well ID PZ-49S  
Well diameter 2 in  
Well Total Depth 28.93 ft  
Screen Length 10 ft  
Depth to Water 6.5 ft

Pumping Information:

Final Pumping Rate 1000 mL/min  
Total System Volume 0.1926587 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 66.12 in  
Total Volume Pumped 215 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:30:10	300.05	17.99	6.72	330.18	4.35	12.01	0.81	-30.45
Last 5	15:35:10	600.02	18.37	6.73	315.92	4.33	12.01	0.56	-31.67
Last 5	15:40:10	900.02	18.12	6.73	321.11	4.26	12.01	0.68	-30.43
Last 5	15:45:10	1200.01	17.89	6.72	331.95	4.29	12.01	0.76	-29.30
Last 5	15:50:10	1500.00	18.38	6.73	317.05	--	--	0.63	-30.21
Variance 0			-0.24	-0.00	5.19			0.12	1.24
Variance 1			-0.23	-0.02	10.84			0.08	1.13
Variance 2			0.49	0.01	-14.90			-0.12	-0.91

Notes

Grab Samples



### MONITORING WELL DEVELOPMENT DATA SHEET

Project: Plant Scherer  
 Date: 3-20-2020  
 Casing Type: PVC  
 Well/Boring Number: PZ-50D  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 100.2 - 90.2  
 Riser Stickup: NOT INSTALLED  
 Total Well Depth (Lw) in feet: 100.2  
 Depth to Water (Lf) in feet: 26.05  
 Time of Measurement: 13:42

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  11.9 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	15:06	<u>BELOW PUMPING AT 1000 ML</u>				
	15:20	7.47	211.4	110	20.65	3.75 <u>20.60 SCREEN</u>
	15:36	7.48	212.4	1100	20.69	6.50
	15:40	7.43	208.3	7100	20.66	9.25
	15:50	7.30	207.1	961	20.00	12.0
	16:00	7.27	211.6	38	20.01	14.75 <u>20.00 SCREEN</u>
	16:10	7.28	215.9	817	19.81	17.50
	16:20	7.24	219.0	91	19.81	20.25
	16:30	7.24	219.7	86.6	19.58	23.00 <u>20.00 SCREEN</u>
	16:40	7.26	221.9	66	19.77	25.75
	16:50	7.21	219.7	66	19.91	28.50 <u>20.00 SCREEN</u>
	17:00	7.24	219.7	64	19.55	31.25
	17:10	7.23	220.8	46	19.45	34.00
	<u>Finished on 3-21-2020, SEE SHEET NO. 2</u>					

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) ENCLOMOR If pumped, pumping rate: 1000 mL/min  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: ---  
 A total of --- well volumes were removed during the development of this well

Developer's Signature: [Signature] Date: 3-20-2020  
 PM's Signature: [Signature] Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

Project: Plant Scherer  
 Date: 3-21-20  
 Casing Type: PVC  
 Well/Boring Number: PZ-50b  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 90.2 - 100.2  
 Riser Stickup: NOT INSTALLED  
 Total Well Depth (Lw) in feet: 100.2  
 Depth to Water (Lf) in feet: 26.05 (3-20-20)  
 Time of Measurement: 13:42 (3-20-20)

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  119 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development					
08:45					
08:55	7.27	223.6	92.9	18.91	26.75
09:05	7.28	219.8	84.2	18.79	29.50
09:15	7.28	221.9	59.6	18.75	33.25
09:25	7.16	227.9	29.4	18.70	36.00
09:35	7.11	219.4	15.3	18.70	38.75
09:45	7.15	221.1	12.2	18.61	41.50
09:55	7.14	216.6	8.63	18.64	44.25
10:05	7.15	222.6	6.73	18.66	47.00
10:15	7.15	221.4	4.79	18.67	49.75

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) DECLAIMER If pumped, pumping rate: 1000 ML/MIN  
 Well Purged Dry NO Continuous Recharge YES

Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_

A total of 42 well volumes were removed during the development of this well

WELL PAD AND RISKER NOT INSTALLED YET

Developer's Signature \_\_\_\_\_  
 PM's Signature \_\_\_\_\_

Date: 3-21-2020  
 Date: 5/28/2020



GOLDER

DATE: 3-21-2020

GROUNDWATER SAMPLING LOG

Project Name: PLANT SCHEDULE Project /Phase No.: 2018B494  
 Well ID: 22-509 Sampler(s): DINER-COR - KYLE COOLMAN  
 Well Diameter: 2 inches Initial Depth to Water: 26.05 feet  
 Depth to Bottom: 100.2 feet Water Column Thickness: 24.15 feet  
 Pumping Rate: 1000 mL/min System Volume: \_\_\_\_\_ mL  
 Well Location: \_\_\_\_\_  
 Equipment: SMARTROL, MP50, RECLAIMER, LANDT 2020 WE

	+/- 0.1	+/- 5%	<10	+/- 10% or 0.2		+/- 10	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
10:17	8.04	SMARTROL 2.19	2.0	3.64	18.7	7.36	29.05
10:32	7.14	2.19	4.51	3.64	18.7	7.36	29.06
		2.19					

Comments (weather conditions, color, type of sample, purge-water management, etc.):

\_\_\_\_\_  
 \_\_\_\_\_

Signature: [Signature] Date: 3-21-2020  
 QA/QC Sign Off: [Signature] Date: 5/28/2020



Product Name: Low-Flow System

Date: 2020-03-21 10:35:07

Project Information:

Operator Name A. Howard  
Company Name Golder  
Project Name 20138494  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type GeoTech Reclaimer  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 95 ft

Pump placement from TOC 95 ft

Well Information:

Well ID PZ-50D  
Well diameter 2 in  
Well Total Depth 100.2 ft  
Screen Length 10 ft  
Depth to Water 26.05 ft

Pumping Information:

Final Pumping Rate 1000 mL/min  
Total System Volume 0.5140252 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 35.76 in  
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	10:22:40	300.07	18.70	7.12	224.34	4.84	29.06	5.50	8.10
Last 5	10:27:40	600.01	18.70	7.13	224.98	4.61	29.06	5.54	7.70
Last 5	10:32:40	900.00	18.70	7.14	219.90	4.51	29.06	5.64	7.36
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.00	0.01	0.64			0.04	-0.40
Variance 2			0.00	0.02	-5.08			0.09	-0.33

Notes

Grab Samples



MONITORING WELL DEVELOPMENT DATA SHEET

1 OF 1

Project: Plant Scherer  
 Date: 3-17-2020  
 Casing Type: PVC  
 Well/Boring Number: 02-510  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 130.9 - 120.9  
 Riser Stickup: 2.5'  
 Total Well Depth (Lw) in feet: 130.9  
 Depth to Water (Ll) in feet: 34.7  
 Time of Measurement: 1030

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ll) =$  15.70 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity ( $\mu S/cm$ )	Clarity/Turbidity (NTU)	Temp ( $^{\circ}C$ )	Volume (gallons)
Before Development	1130	11.92	960.3	21000	17.67	2.5
	1140	11.30	732.0	21000	17.70	4.0
	1150	10.88	265.8	4.3	17.84	5.5
	1200	10.64	236.5	31000	17.85	7.0
	1210	10.42	217.2	21000	17.80	9.5
	1215	9.88	179.2	36.4	17.62	12.5
	1230	9.29	179.7	10.17	17.62	15.5
	1240	9.23	173.2	74.1	17.62	18.5
	1250	8.78	162.9	14.8	17.62	22.0
	1300	8.20	163.6	41.6	17.62	28.0
	1310	8.22	162.6	9.67	17.62	28.0
	1320	8.13	161.1	4.88	17.62	31.0
	1330	7.99	159.8	3.22	17.62	34.0

Switch Screen  
 Switch Screen  
 1000 ml/min  
 Switch Screen  
 Switch Screen

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) Bailer If pumped, pumping rate: 400 mL/min  
 Well Purged Dry No Continuous Recharge Yes  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: [Signature] Date: 3-17-2020  
 PM's Signature: [Signature] Date: 5/28/2020



GOLDER

DATE: 3-17-2020

GROUNDWATER SAMPLING LOG

Project Name: PLANT SERVICE Project /Phase No.: \_\_\_\_\_  
 Well ID: P2-51D Sampler(s): Darren Cox  
 Well Diameter: 2 inches Initial Depth to Water: 38.4 feet  
 Depth to Bottom: 130.9 feet Water Column Thickness: \_\_\_\_\_ feet  
 Pumping Rate: 1000 mL/min System Volume: \_\_\_\_\_ mL  
 Well Location: \_\_\_\_\_  
 Equipment: \_\_\_\_\_

	$\pm 0.1$	$\pm 5\%$	$\pm 10$	$\pm 10\%$ or $0.2$		$\pm 10$	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
13:55	7.84	157.30	2.65	2.32	17.63	41.80	38.51

Comments (weather conditions, color, type of sample, purge-water management, etc.):  
PLANT SERVICE 13:55

Signature: [Signature] Date: 3-17-2020  
 QA/QC Sign Off: [Signature] Date: 5/28/2020

Product Name: Low-Flow System

Date: 2020-03-17 13:56:38

Project Information:

Operator Name Darren Cox  
Company Name Golder  
Project Name Plant Scherer  
Site Name Default Site  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 497259  
Turbidity Make/Model Lamotte2020we

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type LDPE  
Tubing Diameter 0.625 in  
Tubing Length 130.9 ft

Pump placement from TOC 125.9 ft

Well Information:

Well ID PZ-51D  
Well diameter 2 in  
Well Total Depth 130.9 ft  
Screen Length 10 ft  
Depth to Water 38.4 ft

Pumping Information:

Final Pumping Rate 1000 mL/min  
Total System Volume 8.487141 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.2 in  
Total Volume Pumped 20 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:41:01	299.99	17.62	7.93	159.08	2.96	38.45	2.28	43.21
Last 5	13:46:01	599.99	17.62	7.89	158.38	2.71	38.48	2.29	43.37
Last 5	13:51:01	899.99	17.62	7.88	158.41	3.28	38.50	2.32	41.11
Last 5	13:56:01	1199.99	17.62	7.84	157.50	--	--	2.32	41.49
Last 5									
Variance 0			-0.00	-0.04	-0.69			0.00	0.16
Variance 1			-0.00	-0.01	0.03			0.03	-2.26
Variance 2			0.00	-0.04	-0.91			0.01	0.38

Notes

Grab Samples



MONITORING WELL DEVELOPMENT DATA SHEET

Project: Plant Scherer  
 Date: 3-22-2020  
 Casing Type: PVC  
 Well/Boring Number: P2-52  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 69.65-79.65  
 Riser Stickup: 2.1'  
 Total Well Depth (Lw) in feet: 79.65  
 Depth to Water (Lf) in feet: 30.70  
 Time of Measurement: 08:49

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  8.0 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conduc-tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
<b>Before Development</b>					
0910					Began pumping @ 1000 ml/min
0920	12.35	1585.8	2100	19.16	2.95
0930	11.74	3210	205	18.93	5.50 SURGED SCREEN
0940	11.12	353.8	2100	18.97	8.25
0950	9.04	380.8	152	18.88	11.00 SURGED SCREEN
1000	8.24	419.8	138	18.88	13.95
1010	7.68	505.4	118	18.84	16.50 SURGED SCREEN
1020	7.03	387.6	1070	18.87	19.25
1030	6.80	392.0	65.1	18.84	22.0 SURGED SCREEN
1040	6.55	370.9	83.9	18.99	24.95
1050	6.37	371.6	20.9	18.97	27.50 SURGED SCREEN
1100	6.35	380.3	69.5	19.07	30.25
1110	6.30	386.0	32.9	19.11	33.00
1120	6.26	384.4	30.8	18.90	35.95 SURGED SCREEN
1130	6.36	407.8	55.0	18.89	38.50
1240	6.31	399.1	37.0	18.73	41.25 SURGED SCREEN
1250	6.30	406.1	46.4	18.75	44.00

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) EXHAUSER If pumped, pumping rate: 1000 ml/min  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature [Signature] Date 3-22-2020  
 PM's Signature [Signature] Date 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

Project: Plant Scherer  
 Date: 3-22-2020  
 Casing Type: PVC  
 Well/Boring Number: PZ-52  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 19.65-79.65  
 Riser Stickup: 2.1'  
 Total Well Depth (Lw) in feet: 79.65  
 Depth to Water (Lf) in feet: 50.70  
 Time of Measurement: 08:49

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  8.0 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conduc-ivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)	
1300	6.25	389.0	37.4	18.98	48.00	SWITCHED TO 1500 ML/MIN
1310	6.42	405.4	11.8	18.93	52.0	SWITCHED SCREEN
1320	6.23	388.4	39.0	18.66	56.0	
1330	6.19	388.8	40.5	18.64	60.0	SWITCHED SCREEN
1340	6.24	394.1	61.7	18.63	64.0	
1350	6.19	386.7	26.8	18.63	68.0	
1400	6.16	385.7	13.7	18.61	72.0	
1410	6.15	385.2	8.55	18.61	76.0	
1420	6.14	385.3	4.75	18.56	80.0	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) ROCCAMER If pumped, pumping rate: 1500 ML/MIN  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: -  
 A total of 10 well volumes were removed during the development of this well.

Developer's Signature [Signature] Date 3-22-2020  
 PM's Signature [Signature] Date 5/28/2020



Product Name: Low-Flow System

Date: 2020-03-22 13:39:18

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 20138494  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type GeoTech Reclaimer  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 74.65 ft

Pump placement from TOC 74.65 ft

Well Information:

Well ID PZ-52  
Well diameter 2 in  
Well Total Depth 79.65 ft  
Screen Length 10 ft  
Depth to Water 30.70 ft

Pumping Information:

Final Pumping Rate 1500 mL/min  
Total System Volume 0.4231946 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 418.2 in  
Total Volume Pumped 22.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:26:48	300.09	18.62	6.15	385.27	4.81	65.55	0.25	59.06
Last 5	13:31:48	600.01	18.70	6.13	386.20	4.41	65.55	0.25	60.33
Last 5	13:36:48	900.00	18.66	6.14	386.25	3.71	65.55	0.24	59.45
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.08	-0.02	0.93			-0.01	1.27
Variance 2			-0.04	0.01	0.05			-0.01	-0.87

Notes

Grab Samples



MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3/22/20  
 Casing Type: PVC  
 Well/Boring Number: P2-53  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: 2.8  
 Total Well Depth (Lw) in feet: 26.18  
 Depth to Water (Ll) in feet: 47.13  
 Time of Measurement: 0838

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ll) =$  3.41 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conductivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)
0850 - STARTED PURGING					
0900	7.17	972.8	4047	18.37	3.6 *SURGED SCREEN
0910	6.14	197.2	851	18.26	5.2
0920	5.85	141.1	123	18.26	7.8
0930	5.65	107.2	64	18.26	10.4 *SURGED SCREEN
0940	5.58	87.2	28	18.27	13
0950	5.55	84.1	2103	18.35	15.6 *SURGED SCREEN
1000	5.54	77.1	54	18.35	18.2
1010	5.52	78.1	43	18.70	20.8
1020	5.58	83.5	1062	18.12	23.2 *SURGED SCREEN
1030	5.40	82.6	2008	17.15	25.8
1040	5.52	79.3	130	19.36	28.4
1050	5.47	88.2	98	17.43	31.0
1100	5.46	66.5	685	17.86	33.6 *SURGED SCREEN
1110	5.49	20.4	266	19.47	36.2
1120	5.45	67.5	33.2	19.30	38.8
1130	5.47	65.9	21.17	19.15	41.4

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) RECLAIMER If pumped, pumping rate: 1000 mL/MIN  
 Well Purged Dry  Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well

Developer's Signature: [Signature] Date: 3/22/20  
 PM's Signature: [Signature] Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

Project: Plant Scherer  
 Date: 3/22/20  
 Casing Type: PVC  
 Well/Boring Number: PZ-53  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: \_\_\_\_\_  
 Riser Stickup: \_\_\_\_\_  
 Total Well Depth (Lw) in feet: \_\_\_\_\_  
 Depth to Water (Lf) in feet: \_\_\_\_\_  
 Time of Measurement: \_\_\_\_\_

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  \_\_\_\_\_ Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	1140	5.45	<del>62.3</del> 64.6	22.3	19.3	44.0
	1150	5.44	63.0	45.7	19.67	46.6
	1200	5.37	57.0	28.5	19.18	49.2
	1210	5.41	62.8	29.7	18.83	51.8
	1220	5.40	59.7	28.3	18.71	54.4
	1230	5.40	59.3	25.0	18.78	57.0
	1240	5.41	56.9	19.6	18.65	57.6
	1250	5.42	57.7	13.3	18.67	62.2
	1300	5.41	55.4	11.8	18.67	64.8
	1310	5.38	54.6	9.6	18.66	67.4
	1320	5.37	54.2	4.39	18.61	70.0
	<u>* SWITCHED TO SMARTROLL</u>					

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) RECLAIMER If pumped, pumping rate: 1000 mL/MIN  
 Well Purged Dry        Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature \_\_\_\_\_ Date: 3/22/20  
 PM's Signature \_\_\_\_\_ Date: 5/28/2020

*(Handwritten signature)*



GOLDER

DATE: 3/22/20

GROUNDWATER SAMPLING LOG

Project Name: PLANT SCHERER

Project /Phase No.: 20189484

Well ID: PZ-53

Sampler(s): Darren Cox A HOWARD

Well Diameter: 2 inches

Initial Depth to Water: 26.18 feet

Depth to Bottom: 47.13 feet

Water Column Thickness: 20.95 feet

Pumping Rate: 100 mL/min

System Volume: \_\_\_\_\_ mL

Well Location: \_\_\_\_\_

Equipment: SMARTROLL, MP50, RELINER, LAMOTT 2020 WE

	± 0.1	± 5%	<10	± 10% or 0.2		± 10	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Diss O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
1336	5.36	53.60	4.75	1.31	18.75	52.00	28.13

Comments (weather conditions, color, type of sample, purge-water management, etc.):

Signature: \_\_\_\_\_ Date: 3/22/2020

QA/QC Sign Off: \_\_\_\_\_ Date: 5/28/2020

Product Name: Low-Flow System

Date: 2020-03-22 13:38:44

Project Information:

Operator Name A. Howard  
Company Name Golder  
Project Name 20138494  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type GeoTech Reclaimer  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID PZ53  
Well diameter 2 in  
Well Total Depth 47.18 ft  
Screen Length 10 ft  
Depth to Water 26.18 ft

Pumping Information:

Final Pumping Rate 1000 mL/min  
Total System Volume 0.2774638 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 23.4 in  
Total Volume Pumped 77.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:26:41	300.04	18.66	5.40	54.59	4.66	28.13	1.31	49.89
Last 5	13:31:41	600.01	18.75	5.37	53.93	4.35	28.13	1.33	51.96
Last 5	13:36:41	900.00	18.75	5.36	53.63	4.75	28.13	1.31	52.01
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.09	-0.03	-0.66			0.03	2.07
Variance 2			-0.00	-0.01	-0.30			-0.03	0.06

Notes

Grab Samples



MONITORING WELL DEVELOPMENT DATA SHEET

Project: Plant Scherer  
 Date: 3/23/20  
 Casing Type: PVC  
 Well/Boring Number: P2-54  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: ~2.6  
 Total Well Depth (Lw) in feet: 27.84  
 Depth to Water (Lf) in feet: 49.41  
 Time of Measurement: 0900

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  1200 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
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Before Development

910 - STARTED PURGING

920	7.04	0.7	132	18.57	3	*SURVED SCREEN
930	7.19	129.7	75	18.61	6	
940	6.72	124.7	150	18.48	9	*SURVED SCREEN
950	6.42	119.7	99	18.33	12	
1000	6.58	118.2	96	18.44	15	*SURVED SCREEN
1010	6.33	118.7	101	18.33	18	
1020	6.27	118.0	70.6	18.26	21	*SURVED SCREEN
1030	6.17	112.0	107.6	18.25	24	
1040	6.15	112.5	96	18.20	27	
1050	6.14	112.6	51.8	18.32	30	*SURVED SCREEN
1100	6.16	111.9	93.0	18.44	33	
1110	6.12	113.5	22.1	18.36	36	*SURVED SCREEN
1120	6.17	112.7	54.0	18.38	39	
1130	6.11	112.0	11.6	18.37	42	
1140	6.05	108.1	5.25	18.37	45	
1150	6.00	108.2	2.21	18.37	48	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) RECLAIMER If pumped, pumping rate 1200 mL / MIN  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: NEVER REALLY GOT TO TURBID.  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature

*[Handwritten Signature]*

Date 3/23/20

PM's Signature

*[Handwritten Signature]*

Date 5/28/2020



Product Name: Low-Flow System

Date: 2020-03-23 12:09:29

Project Information:

Operator Name A. Howard  
Company Name Golder  
Project Name 20138494  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type GeoTech Reclaimer  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 44 ft

Pump placement from TOC 44 ft

Well Information:

Well ID PZ54  
Well diameter 2 in  
Well Total Depth 49.41 ft  
Screen Length 10 ft  
Depth to Water 27.84 ft

Pumping Information:

Final Pumping Rate 1200 mL/min  
Total System Volume 0.2863906 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 123.13 in  
Total Volume Pumped 63 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:58:19	300.09	18.34	6.05	106.91	2.01	38.72	3.43	44.07
Last 5	12:03:19	600.01	18.35	6.04	108.02	1.67	38.72	3.27	44.10
Last 5	12:08:19	900.00	18.39	5.96	107.92	1.50	38.72	3.08	45.89
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.01	-0.01	1.11			-0.16	0.03
Variance 2			0.04	-0.07	-0.09			-0.19	1.79

Notes

Grab Samples

### MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Schmitt  
 Date: 3-23-2020  
 Casing Type: PVC  
 Well/Boring Number: 72-55  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 28.60 - 38.60  
 Riser Stickup: 3.5' PROTECTIVE CASING NOT INSTALLED YET  
 Total Well Depth (Lw) in feet: 38.60  
 Depth to Water (Ll) in feet: 20.05  
 Time of Measurement: 09:10

Volume of water in well, using  $V=0.041(Dr)^2(Lw-Ll)$  = 30 Gallons

#### FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc-ivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	0935	6.99	151.8	2100	19.11	2.5
	1005	6.93	148.0	2000	19.97	8.25
	1015	6.66	141.8	89.9	19.97	12.05
	1025	6.68	145.9	2100	19.11	14.75
	1035	6.66	138.1	2100	19.06	17.5
	1045	6.75	133.7	138	19.01	20.25
	1055	6.85	132.9	2000	19.10	23.0
	1105	6.83	131.9	691	19.10	25.75
	1115	6.47	130.6	109.0	19.06	28.50
	1125	6.58	130.5	30.3	19.13	31.25
	1135	6.48	128.6	21.7	19.06	34.00
	1145	6.45	128.9	14.8	19.06	36.75
	1155	6.41	129.5	11.5	19.06	39.5
	1205	6.43	129.5	9.50	19.06	42.25
	1215	6.44	128.1	8.80	19.10	45.00
1225	6.38	127.8	7.07	19.08	47.75	

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump): TELEPHONE if pumped, pumping rate 1000 GAL/MIN  
 Well Purged Dry: NO Continuous Recharge: YES  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: [Signature] Date: 3-23-2020  
 PM's Signature: [Signature] Date: 5/28/2020

CURRENTLY UPON DEVELOPMENT, JUST THE 2" PVC STICK UP WITH A LOCKING CAP IS INSTALLED







Product Name: Low-Flow System

Date: 2020-03-23 12:54:39

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 20138494  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type GeoTech Reclaimer  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 33.6 ft

Pump placement from TOC 33.6 ft

Well Information:

Well ID PZ-55  
Well diameter 2 in  
Well Total Depth 38.6 ft  
Screen Length 10 ft  
Depth to Water 20.05 ft

Pumping Information:

Final Pumping Rate 1000 mL/min  
Total System Volume 0.364971 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 42.6 in  
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:41:31	300.07	19.04	6.39	127.07	4.60	23.60	5.74	55.61
Last 5	12:46:31	600.01	19.06	6.40	126.95	3.57	23.60	5.79	55.03
Last 5	12:51:31	900.00	19.05	6.42	126.88	3.15	23.60	5.83	54.27
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.03	0.02	-0.12			0.05	-0.58
Variance 2			-0.01	0.02	-0.07			0.04	-0.75

Notes

Grab Samples

MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3-23-2020  
 Casing Type: PVC  
 Well/Boring Number: PR-56  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 35.91 - 45.91  
 Riser Stickup: STICK UP NOT INSTALLED  
 Total Well Depth (Lw) in feet: 45.41  
 Depth to Water (Lf) in feet: 23.94  
 Time of Measurement: 13:30

2295

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  1.9 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	13:46					
	13:56	6.88	560.8	21000	13.92	2.75
	15:26					
	15:56					
	16:56					
3-24-20	08:20					
	08:27					
	08:37	6.47	270.6	21000	18.00	2.60
3-24-20	15:40					
	15:43					
	15:48	6.56	242.6	21000	18.89	3.0

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) DECLAWER If pumped, pumping rate: 1000 mL/min  
 Well Purged Dry YES Continuous Recharge NO  
 Notes concerning condition of well, odors, color, etc.:  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature \_\_\_\_\_ Date: 3-23-2020  
 PM's Signature \_\_\_\_\_ Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET

Project: PLANT SCHERER  
 Date: 3-25-2020  
 Casing Type: PVC  
 Well/Boring Number: PE-56  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: \_\_\_\_\_  
 Total Well Depth (Lw) in feet: 45.41  
 Depth to Water (Lf) in feet: 58.09  
 Time of Measurement: 815

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  2.6 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conductivity ( $\mu S/cm$ )	Clarity/ Turbidity (NTU)	Temp ( $^{\circ}C$ )	Volume (gallons)	
Before Development						
820						*SURGED SCREEN
830	6.74	269.3	35.1	18.06	9.6	DTW = 39.44
840	6.56	326.7	33.0	18.03	12.2	DTW = 41.11
850	6.58	331.8	21.7	18.12	14.8	DTW = 42.2
900	6.55	270.4	18.6	18.61	17.4	DTW = 42.97
906	WELL WENT DRY					

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) RECLAIMER If pumped, pumping rate: 1000 mL/MIN  
 Well Purged Dry YES Continuous Recharge NO  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature [Signature] Date: 3/25/20  
 PM's Signature [Signature] Date: 5/28/2020

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / WELLID: Well 4474  
 WELL ID NO: 2  
 DEVELOPED BY: JKM  
 STARTED DATE: 18/01/1991  
 NO. BOREHOLE DEVS: 2021, 2022, 1191  
 WELL DEPTH BOREHOLE DEVS: 48.20  
 DEPTH TO WATER TABLE (m): 11.41  
 BOREHOLE LENGTH: 12'

WELL ID: 92-56  
 WELL ID NO: 2  
 DATE OF INSTALL: \_\_\_\_\_  
 COMPLETED DATE: 4/8/2010  
 NO. ATTEMPTS: 4/8/1991, 1992  
 WELL DEPTH AT TOP LEVEL: 48.18  
 DEPTH TO WATER TABLE: well when 1.552 =  
 BOREHOLE DEPTH (m): \_\_\_\_\_

2021, 2022

DATE/TIME	WELL ID	FLUID TYPE	DEPTH (m)	FIELD PARAMETERS									
				TEMP (°C)	TEMP (°F)	PRESS (kPa)	PRESS (psi)	WELL HEAD	WELL HEAD	WELL HEAD	WELL HEAD	WELL HEAD	WELL HEAD
1991	2		76.70	6.42	28.8	28.8	269	4.36	43.0			11.41	11.41
1155	2			6.47	29.2	29.2	69.7	4.36	43.0			11.41	11.41
1207	4			6.78	29.2	29.2	71.7	4.36	43.0			11.41	11.41
1210	4-1			6.54	29.2	29.2	70.2	4.36	43.0			11.41	11.41
<p>4-9 ATTEMPT 2016 Low Flow</p> <p>4-9-2016 1191</p> <p>0.97 - Begin Low flow of 3000/wh</p> <p>91 - Pul down 1st of prod. pipe at ground to 3000/wh</p> <p>0.98 - run down to 3000/wh</p> <p>92 - 0.984 Low flow</p>													

DEVELOPMENT METHOD: \_\_\_\_\_  
 NOTES: Low flow data in interval log.

*[Handwritten Signature]*

Product Name: Low-Flow System

Date: 2020-04-09 09:32:45

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID PZ-56  
Well diameter 2 in  
Well Total Depth 48.2 ft  
Screen Length 10 ft  
Depth to Water 38.93 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 1.023902 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:12:05	300.10	18.51	6.49	275.01	6.21	42.08	6.27	109.91
Last 5	09:17:05	600.02	18.60	6.46	280.61	3.37	43.00	6.27	105.47
Last 5	09:22:05	900.02	18.87	6.42	266.57	2.47	43.00	6.10	107.75
Last 5	09:27:06	1201.02	19.16	6.36	248.28	2.27	43.00	5.96	109.45
Last 5									
Variance 0			0.08	-0.03	5.60			-0.00	-4.44
Variance 1			0.27	-0.04	-14.04			-0.16	2.28
Variance 2			0.29	-0.06	-18.29			-0.14	1.70

Notes

WL dropped below top of pump at 0917, purge rate decreased from 400 to 200 ml/min. Increased airflow causes bubbles in flow cell, resulting in partial parameter stabilization

Grab Samples



MONITORING WELL DEVELOPMENT DATA SHEET

PAGE 1 OF 2

Project: PLANT SCHEDER  
 Date: 3/24/20  
 Casing Type: PVC  
 Well/Boring Number: PZ-57  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: -  
 Total Well Depth (Lw) in feet: 52.6  
 Depth to Water (Ll) in feet: 25.2  
 Time of Measurement: 0950

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ll) =$  3 Gallons @ 1200 mL/MIN

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

2.6 gal @ 1000 mL/MIN  
2 @ 800 mL/MIN  
1 @ 400 mL/MIN

Before Development

Time	pH (S.U.)	Conductivity (µS/cm)	Clarity (NTU)	Temp (°C)	Volume (gallons)
------	-----------	----------------------	---------------	-----------	------------------

Time	pH	Conductivity	Clarity	Temp	Volume	Notes
10:00	12.62	6215.1	250.3	18.76	3	STARTED PUMPING
						STARTED PUMP TO 800 mL/MIN
10:20	12.58	5297.0	20.7	19.24	3	RESURFED SCREEN
10:40	12.57	5100.6	14.07	19.73	7	DTW = 36.2
10:40	12.33	1292.4	0.8	19.68	7	DTW = 38.0
						CHANGED PUMP TO 1000 mL/MIN
10:50	12.0	5738	2097	18.86	11.4	DTW = 47.2
10:50						STOPPED PUMP
11:16						DTW = 50.5
11:16						STARTED SCREEN
12:27						DTW = 44.36
12:40	11.36	3285.1	132.3	21.37	12.6	STARTED PUMPING @ 400 mL/MIN
12:50	12.24	2709.0	11.1	23.36	13.0	DTW = 43.6
13:00	12.25	2197.8	229.9	20.31	14.6	RESURFED SCREEN
13:10	11.91	1244.2	33.5	22.02	15.6	DTW = 45.2
13:20	11.90	1146.7	44.7	20.2	16.6	DTW = 45.74

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) RECLAIMER if pumped, pumping rate: SEE ABOVE  
 Well Purged Dry YES Continuous Recharge NO  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature

PM's Signature

*[Handwritten signatures]*

Date: 3/24/20

Date: 5/28/2020



MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3/24/20  
 Casing Type: PVC  
 Well/Boring Number: P2-57  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: —  
 Total Well Depth (Lw) in feet: 52.6  
 Depth to Water (Lf) in feet: 25.2  
 Time of Measurement: 0950

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  \_\_\_\_\_ Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (µS/cm)	Clarity Turbidity (NTU)	Temp (°C)	Volume (gallons)		
Before Development	1330	11.88	1040.8	74	20.98	17.0	DTW = 46.05	
PUMPING @ 400ml/min	1340	11.71	506.2	88.7	20.93	18.6	DTW = 46.52	
	1350	11.76	948.6	102	20.78	17.6	DTW = 47.23	
	1400	11.53	562.5	114	21.15	20.6	DTW = 48.1	
	1410	11.19	512.7	119.9	21.11	21.6		
	1420	11.10	478.3	54.6	20.53	22.6	DTW = 49.21	
	1420	*PUMP DRY - STOPPED PUMPING						
PUMPING @ 1000ml/min	0940	*SURGED SCREENS						
	0950	— START PUMPING —						DTW = 31.87
	0950	10.76	898.3	45.0	19.52	25.2	DTW = 36.23	
	1000	10.86	501.9	32.1	18.53	27.8	DTW = 39.54	
	1010	10.03	457.5	30.3	18.27	30.4	DTW = 42.01	
	1020	9.77	412.0	21.6	18.20	33.0	DTW = 46.98	
	1027	— WELL WENT DRY —						

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump): RECLAIMER If pumped, pumping rate: 1000ML/MIN  
 Well Purged Dry: YES Continuous Recharge: —  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature

*[Handwritten Signature]*

Date: 3/25/20

PM's Signature

*[Handwritten Signature]*

Date: 5/28/2020

A-4EPA

#

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER: 20139484 WELL NO: PZ-57

WELL USE: A DATE OF DRILL: 7-15-20

DEVELOPER: KCC DATE OF RECORD: 4/9/20

STARTED DEPTH: \_\_\_\_\_ COMPLETED DEPTH: 421/2000 1210

DRILLING DEPTH: 381 944 411 NO. OF TESTS: 421/2000 1210

WELL DEPTH BEFORE LEVEL: 56.8' WELL DEPTH AT TESTS: 58.9'

STANDARD WATER COLUMN (FT): \_\_\_\_\_ STANDARD WELL VOLUME: \_\_\_\_\_

WATER COLUMN: 46.8-58.9 (10') DRILLING WATER LOG: \_\_\_\_\_

TOT 2 log  
up  
from

DEPTH	WELL DEPTH	FLOWING HEAD	STRAIN	FIELD PARAMETERS										REMARKS		
				TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP			
44/1200	2	77.5	10.59	53.5	2444	11	200	6.7	78.0	Flow @ 25'						
1210	20.5	79.0	10.0	415.2	2106	310	200	8.8	1000							
1241	18.5	81														
1251	5	81	9.09	419.0	2106	367	200	8.8	1123	Flow						
1262	10.2	80	9.95	487.1	2107	109.1	200	8.5	11.0							
1310																
1330	0.7	82	9.10	410	2106	310	194	8.8	11.0	Flow						
1340																
1350	2.5	80	9.32	480	2111	619	200	8.6	107.1	Flow						
1361																
1369			9.66													
1430			9.80													
1444			9.73													
1455	9.6	84	9.22	411	4226	2106	390	200	7.7	113.6	Flow					
1500	10	84	9.24													
1542																
1544			9.70													
1546/1560			9.71	422	4210	2106	306	200	11.7	Flow						
1600	10.5	72	7.9													
1615			80.5													
1630		23	9.17	4.15	2101	2106	118	200	8.17	116.1	Flow					
1635	14.5	70	7.9													
1674	8		7.90	8.28	4208	2106	116	200	8.23	76.1	Flow					
1307	4			4.63	2104	2106	427	200	2.80	66.1	Flow					
1223	8.7			4.50	4207	2106	147	200	2.88	64.3	Flow					
1201			11.4													
1210			7.90	8.64	4206	2106	258	200	2.01	77.7	Flow					
1237			4.64	8.31	4204	2106	219	200	1.8	11.0	Flow					
1247																

5 gal tested

Flow of water from flow

Add 2nd 1/2 drilled into

Flow due to completion

Flow due to completion, water in the

up to 1 1/2 days

418

419

was 238'

was 238' out

was 21.4' out

(Drilled 10' and 11' out)

Sound 7' out

DEVELOPMENT METHOD: Reamer pump, surge/over/rotate/rotate

NOTE: ~2.5' per min rotate (4210-4211) Final Rev 41.77'

1.5' per min (4214-4215) 4/9/20

295

5/28/2020

Product Name: Low-Flow System

Date: 2020-04-09 12:48:11

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 51 ft

Pump placement from TOC 51 ft

Well Information:

Well ID PZ-57  
Well diameter 2 in  
Well Total Depth 56.8 ft  
Screen Length 10 ft  
Depth to Water 33.43 ft

Pumping Information:

Final Pumping Rate 400 mL/min  
Total System Volume 1.197651 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 64.44 in  
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:15:37	600.02	20.11	8.72	424.78	3.29	39.91	2.00	29.71
Last 5	12:20:37	900.02	20.16	8.76	427.96	3.20	40.79	1.93	24.42
Last 5	12:30:37	1500.02	20.38	8.92	426.14	2.86	42.35	1.77	5.37
Last 5	12:35:37	1800.02	20.64	8.98	426.66	2.53	42.64	1.72	-7.20
Last 5	12:40:37	2100.02	20.64	9.07	428.39	2.49	43.07	1.66	-21.07
Variance 0			0.23	0.17	-1.82			-0.16	-19.04
Variance 1			0.26	0.06	0.52			-0.05	-12.57
Variance 2			-0.01	0.10	1.73			-0.06	-13.87

Notes

Purged for 40 min. Smartroll skipped 1st and 4th readings. Unable to meet stabilization for all criteria

Grab Samples

MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3/23/20  
 Casing Type: PVC  
 Well/Boring Number: P2-58  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: ~3  
 Total Well Depth (Lw) in feet: 49.78  
 Depth to Water (Ll) in feet: 39.83  
 Time of Measurement: 1239

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ll) =$  1000 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

TOP OF SCREEN = 39.78

Time	pH (S.U.)	Conductivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development					
1250					
1300	7.33	175.7	733	18.23	2.4
1310	7.43	176.0	287	18.40	5.2
1320	7.44	177.3		18.38	7.8
	* STOPPED PUMPING * * SURGED SCREEN *				DTW = 46.0
1410	7.43	167.8	1755	18.52	10.7
1420	7.45	2.9	1242	18.37	13
	* STOPPED PUMPING *				DTW = 42.13
1500	DTW = 43.21				
1610	DTW = 42.0 * STARTED PUMP + SURGED SCREEN *				
1620	7.37	15.0	1456	18.44	16.0
1623	* WELL RIGGED DRY *				
1700	DTW = 43.44				

stay (Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump): \_\_\_\_\_ If pumped, pumping rate: \_\_\_\_\_  
 Well Purged Dry: YES Continuous Recharge: NO  
 Notes concerning condition of well, odors, color, etc.: \_\_\_\_\_  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 PM's Signature: [Signature] Date: 5/28/2020

MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3/24  
 Casing Type: PVC  
 Well/Boring Number: P2-58  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10  
 Riser Stickup: 3  
 Total Well Depth (Lw) in feet: 49.78  
 Depth to Water (Ll) in feet: —  
 Time of Measurement: —

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Ll) =$  ~~4000~~ Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)	
Before Development	0830 - STARTED PUMPING						DTW = 39.81
	0840	7.92	181.8	17.58	18.62	18.2	
	0850	7.03	165.3	—	18.48	20.8	DTW = 47.01
	* PUMPED DRY @ 852 *						
8/25/20	1505 * STARTED PURGING (+ GURLED SCREEN)						
	1515	9.27	173.9	18.9	20.53	22.8	DTW = 46.31
	1528	7.91	174.0	15.9	19.10	24.8	DTW = 47.17
	* PUMPED DRY @ 1528						
	* SURGED SCREEN						
8/25/20	1100 - STARTED PUMPING						DTW = 39.81
	1110	7.79	176.8	58.0	18.9	27.2	DTW = 42.09
	1120	7.02	180.5	23.8	18.68	29.8	DTW = 47.67
	1128	WELL RAN DRY					

(Fill in one or more of the above columns depending on available equipment)

Method of purging (baller or pump) RECLAIMER if pumped, pumping rate: 1000 mL/MIN  
 Well Purged Dry YES Continuous Recharge —  
 Notes concerning condition of well, odors, color, etc.: —  
 A total of — well volumes were removed during the development of this well.

Developer's Signature  
 PM's Signature

*[Handwritten signatures]*

Date: 8/25/20  
 Date: 5/28/2020

→ **GOLDER**

**WELL DEVELOPMENT FIELD RECORD**

PROJECT NAME: 20158894  
 WELL ID: P2-58  
 DEVELOPER: H2E  
 DATE OF RECORD: 4/6/2020  
 STARTED DEPTH: 47.5  
 COMPLETED DEPTH: 147.5  
 WELL DEPTH BEFORE DEVEL: 317  
 WELL DEPTH AFTER DEVEL: 47.5  
 STANDING WATER COLUMN (FT):  
 SCREEN LENGTH: 10' (36-47)

WELL ID: P2-58  
 WELL DEPTH: 317  
 DATE OF RECORD: 4/6/2020  
 COMPLETED DEPTH: 147.5  
 WELL DEPTH AFTER DEVEL: 47.5  
 STANDING WATER COLUMN (FT):  
 SCREEN LENGTH: 10' (36-47)

\* 4/6/20  
 11:05-11:06  
 H2E does not get supplies  
 from warehouse 24  
 11:50-12:00  
 Thinking about procedure

DATE/TIME	WELL DEPTH (FT)	PUMPING RATE (GPM)	DTH (IN)	WELL PARAMETERS								REMARKS
				SP. GR.	TEMP (°C)	TEMP (°F)	TURBID. (NTU)	CLAR.	PH	RES. (PSI)	DIFF. (PSI)	
10:55	0	0.5	40.15		0.24	25.5	78.1	clear	10.8	123.2	47	Top of Pump
12:40	0.5	0.5	46.15	2.15	0.20	25.6	84.8	clear	12.7	95.7	47	
12:48	1.0	0.5	47.0		DRY						47	
13:05	4.25	0.25	48.5	7.02	0.20	26.7	83.9	clear	11.9	90.5	47	
13:20			47.0		DRY						47	
13:40	1.5	0.25	48.5	7.42	0.19	25.4	82.9	clear	8.2	76.5	47	
13:45			47.0		DRY						47	
14:00			45.25								47	
14:15	1.0	0.2	45.25	7.27	0.18	25.9	83.5	clear	7.2	75.6	47	
14:30			47		DRY						47	
14:35			46								47	
14:45	1.0	0.2	45.2	7.41	0.18	27.6	82.1	clear	7.16	88.9	47	
14:50			47		DRY						47	
15:10	1.0	0.2	45.8	7.42	0.17	25.4	81.3	clear	8.5	78.4	47	
15:15			47		DRY						47	
15:35	0.5	0.2	46.3	7.41	0.18	26.7	78.7	clear	3.1	78.0	47	
15:38			47		DRY						47	
15:50	1.0	0.2	46.1	7.53	0.17	25.0	76.4	clear	2.67	108.2	47	
15:55			47		DRY						47	
16:10	1.0	0.2	46.4	7.45	0.17	26.2	81.1	clear	9.7	101.6	47	
16:15			47		DRY						47	
16:30	1.0	0.2	46.3	7.56	0.18	26.7	80.8	clear	7.57	103.7	47	
16:35			47		DRY						47	
17:00	TOTAL VOLUME PUMPED (GAL)											

\* Depth from top of casing

DEVELOPMENT METHOD: 4/6 End of Day - Team pulled off P2-58 & 57 to finish development on another Date with alternate method

5/28/2020

Golder Associates

WELL DEVELOPMENT FIELD RECORD

Page 1

PROJECT NAME / NUMBER: 2017024  
 WELL ID: 2  
 DEVELOPER: REM  
 STARTED DATE: 10/16/16  
 WELL DEPTH (FEET): 79.16  
 WELL DEPTH (METERS): 49.35  
 STANDARD WATER COLUMN (FT): 10.1  
 STANDARD WATER COLUMN (M): 10.1

WELL NO.: P2-58  
 WELL ID: 2  
 DATE OF INSTALL: 10/20/16  
 COMPLETED DATE: 10/21/16  
 NO. OF TESTS: 10/21/16  
 WELL DEPTH (FEET): 49.35  
 STANDARD WATER COLUMN (FT): 10.1  
 STANDARD WATER COLUMN (M): 10.1

MC 2976  
 10/21/16  
 10/24/16

DATE/TIME	WELL HEAD PRESSURE (PSI)	FLOW RATE (GPM)	FLOW RATE (LPM)	FIELD PARAMETERS								REMARKS
				TEMP (°F)	TEMP (°C)	TEMP (°F)	TEMP (°C)	TEMP (°F)	TEMP (°C)	TEMP (°F)	TEMP (°C)	
1400	0		79.16	75.0	22.1	20.6	16.8	6.0	7.7	10.2		
1410	1.75			75.0	22.1	20.6	16.8	6.0	7.7	10.2		
1417	3.1			75.0	22.1	20.6	16.8	6.0	7.7	10.2		
												RECEIVED
145			79.16									
168												END 48
180												

*Handwritten signature*

DEVELOPMENT METHOD: \_\_\_\_\_  
 NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

*Handwritten signature* 5/28/2020

Product Name: Low-Flow System

Date: 2020-04-09 10:58:22

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 44 ft

Pump placement from TOC 44 ft

Well Information:

Well ID PZ-58  
Well diameter 2 in  
Well Total Depth 49.32 ft  
Screen Length 10 ft  
Depth to Water 39.56 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 1.04562 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 34.32 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:40:16	300.02	19.67	6.68	209.17	6.62	41.17	7.18	115.47
Last 5	10:45:17	600.44	19.38	6.54	217.03	6.08	41.77	7.10	111.10
Last 5	10:50:17	900.44	19.36	6.47	224.96	4.33	42.06	7.30	113.09
Last 5	10:55:18	1201.44	19.49	6.45	227.41	2.38	42.31	7.40	110.89
Last 5									
Variance 0			-0.29	-0.14	7.85			-0.08	-4.37
Variance 1			-0.02	-0.07	7.93			0.20	1.99
Variance 2			0.13	-0.02	2.45			0.10	-2.19

Notes

Grab Samples



WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER: 2019084 WELL NO: PZ-59D Page 1 of 1

WELL TAG NO: 3 WELL TAG NO: 3

DEVELOPED BY: RFM DATE OF RECORD: 7-22-04

STARTED LEVEL: 47.80 / 1090 COMPLETED LEVEL: 47.20 / 1504

WELL DEPTH LEVEL: 4.10 / 404 DE AFTER LEVEL: 3.07 / 1509

WELL DEPTH BEFORE LEVEL: 70.28 WELL DEPTH AFTER LEVEL: 30.28

STANDING WATER COLUMN (FT): 67.96 STANDING WELL COLUMN: \_\_\_\_\_

WATER COLUMN (FT): 15' (67.28 - 72.28) DRILLING WATER LOG: \_\_\_\_\_

60 (T)  
66 (M)  
71.7 (B)

DATE/TIME	WELL DEPTH (FEET)	PLANNED RATE (GPM)	ACTUAL RATE (GPM)	FLOW (GPM)	FIELD PARAMETERS								REMARKS
					TEMP (°F)	TEMP (°C)	TEMP (°F)	TEMP (°C)	TEMP (°F)	TEMP (°C)	TEMP (°F)	TEMP (°C)	
10-7-1090	0		425	672	2010	217.5	184	cm	1.81	2.53		Flow @ 71.7	
1091	0.5	0.5					7100						
1100	10	0.5	4200	730	2072	2100	109	0.4	1.06	20.1			
1120	27.5	0.5	4070	7.01	2079	2084	08	0.4	2.82	20.7			
1125	35	0.5	3903	7.12	2099	2179	07	0.4	2.05	21.6			
1210	42.5	0.5	1699	7.07	2077	2054	627	0.4	2.14	27.4		Flow @ 60, surface water logging returned	
1230	55	0.5	3115	7.08	2083	2016	053	0.4	3.08	20.0			
1250	65	0.5	2910	7.10	2081	2020	205	0.4	2.40	17.6		Flow @ 60	
1315	77.5	0.5	1870	7.10	2085	2080	1097	0.4	2.41	22.7		Flow @ 66	
1330													
1340		0.5	2110	7.01	2012	2119	253	0.4	4.27	21.4		Flow @ 60, surface water logging returned	
1345	82.5	0.5	1910	7.18	2082	2090	080	0.4	2.05	21.8		Flow @ 60	
1400	95	0.5	1810	7.38	2008	2100	774	0.4	2.00	20.0			
1421		0.5	750									Flow @ 65, clean flow	
SEE SMARTROLL LOG FOR FLOW READINGS													
<i>[Handwritten signature]</i>													
1504												Flow @ 60	

Flow @ 60  
Flow @ 65  
Flow @ 66

DEVELOPMENT METHOD: Rechn. prod. test

DATE: \_\_\_\_\_

Product Name: Low-Flow System

Date: 2020-04-07 15:06:04

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 65 ft

Pump placement from TOC 65 ft

Well Information:

Well ID PZ-59D  
Well diameter 2 in  
Well Total Depth 72.28 ft  
Screen Length 15 ft  
Depth to Water 7.50 ft

Pumping Information:

Final Pumping Rate 450 mL/min  
Total System Volume 1.501712 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 46.8 in  
Total Volume Pumped 20.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:41:50	1203.55	19.49	6.91	218.95	1.85	8.22	2.47	47.74
Last 5	14:46:52	1505.55	19.49	6.88	219.41	1.32	8.22	2.33	47.32
Last 5	14:51:54	1807.55	19.49	6.87	219.76	1.30	8.22	2.20	46.98
Last 5	14:57:03	2116.55	19.54	6.85	219.82	1.21	8.22	2.10	47.07
Last 5	15:02:13	2426.55	19.58	6.84	220.17	1.15	8.22	2.00	46.55
Variance 0			0.00	-0.02	0.35			-0.13	-0.34
Variance 1			0.05	-0.01	0.06			-0.10	0.09
Variance 2			0.04	-0.01	0.35			-0.10	-0.53

Notes

Low flow portion of development

Grab Samples

MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3-24-2020  
 Casing Type: PVC  
 Well/Boring Number: DZ-59  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 10.65 - 26.65  
 Riser Stickup: 3', ONLY PVC RISER INSTALLED, NO PROTECTIVE CASING  
 Total Well Depth (Lw) in feet: 26.65  
 Depth to Water (Lf) in feet: 3.23  
 Time of Measurement: 1035

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  3.8 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conduc- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	1130	6.07	174.9	21000	17.31	0.0
	1150	6.07	185.5	21000	17.40	12.0
	1210	6.14	179.9	163	17.45	16.0 SURGED SCREEN
	1220	6.15	179.9	21000	17.57	20.0
	1230	6.13	169.8	21000	17.57	24.0
	1240	6.17	162.1	77	17.64	28.0 SURGED SCREEN
	1250	6.15	139.0	21000	18.03	32.0
	1300	6.18	157.5	49	17.55	36.0
	1310	6.17	134.3	32.2	17.68	40.0
	1320	6.16	132.9	23.7	17.77	44.0
	1330	6.16	153.0	17.0	17.68	48.0
	1340	6.19	151.7	18.6	17.92	52.0
	1350	6.16	150.0	11.44	17.87	56.0
	1400	6.16	149.7	11.2	18.21	60.0
	1410	6.17	149.1	8.33	18.09	64.0
	1420	6.18	149.0	5.19	17.97	68.0

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) PERMANENT if pumped, pumping rate: 1500 mL/min  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: -  
 A total of \_\_\_\_\_ well volumes were removed during the development of this well.

Developer's Signature: [Signature] Date: 3-24-2020  
 PM's Signature: [Signature] Date: 5/28/2020

MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer  
 Date: 3-24-2020  
 Casing Type: PVC  
 Well/Boring Number: PZ-59  
 Casing Diameter in inches (Dr): 2 in  
 Screened Interval: 16.65 - 20.65  
 Riser Stickup: 3' ONLY PVC STICK UP INSTALLED, NO PROTECTIVE CASING  
 Total Well Depth (Lw) in feet: 26.65  
 Depth to Water (Lf) in feet: 5.23  
 Time of Measurement: 10:25

Volume of water in well, using  $V=0.041 (Dr)^2 (Lw - Lf) =$  3.9 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conductivity ( $\mu S/cm$ )	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	6.16	148.3	3.92	18.35	72.0

(Fill in one or more of the above columns depending on available equipment)

Method of purging (bailer or pump) EXHAUSTED If pumped, pumping rate: 1500 mL/min  
 Well Purged Dry NO Continuous Recharge YES  
 Notes concerning condition of well, odors, color, etc.: -  
 A total of 19 well volumes were removed during the development of this well.

Developer's Signature [Signature] Date 3-24-2020  
 PM's Signature [Signature] Date 5/28/2020

DATE: 3-24-2020



GROUNDWATER SAMPLING LOG

Project Name: PLANT SCHOOL Project /Phase No.: 2013B494  
 Well ID: D2-59 Sampler(s): DERRON COX, KYLE COLEMAN  
 Well Diameter: 2 inches Initial Depth to Water: 3.23 feet  
 Depth to Bottom: 26.65 feet Water Column Thickness: 23.42 feet  
 Pumping Rate: 1000 mL/min System Volume: - mL  
 Well Location: -  
 Equipment: SMARTROL, MP10, DECLAMER, LAETTE 2020 WE

	+/- 0.1	+/- 0%	<10	+/- 10% or 0.2		+/- 10	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
14:22	STARTED SMARTROL RECORDING.						
14:48	6.17	149.80	4.90	1.57	18.46	24.00	4.50

Comments (weather conditions, color, type of sample, purge-water management, etc.):

Signature: [Signature] Date: 3-24-2020

QA/QC Sign Off: [Signature] Date: 5/28/2020

Product Name: Low-Flow System

Date: 2020-03-24 14:49:52

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 20138494  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type GeoTech Reclaimer  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 21.65 ft

Pump placement from TOC 21.65 ft

Well Information:

Well ID PZ-59  
Well diameter 2 in  
Well Total Depth 26.65 ft  
Screen Length 10 ft  
Depth to Water 3.23 ft

Pumping Information:

Final Pumping Rate 14.04 mL/min  
Total System Volume 0.3116331 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1000 in  
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:38:42	300.08	18.26	6.18	147.09	4.76	4.40	1.55	22.28
Last 5	14:43:42	600.01	18.26	6.19	148.49	4.71	4.40	1.61	22.13
Last 5	14:48:42	900.00	18.46	6.17	147.30	4.90	4.40	1.57	24.02
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.01	0.01	1.41			0.06	-0.15
Variance 2			0.19	-0.01	-1.19			-0.04	1.88

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME: 20139494

WELL ID: P2-60d

WELL DEPTH: 2

WELL DEPTH: 2

DEVELOPED BY: MHB

DATE OF INITIAL: \_\_\_\_\_

STARTED LEVEL: 4/8 12:05

COMPLETED LEVEL: \_\_\_\_\_

W.L. BEFORE LEVEL: 991 hrs 4/8 12:00

W.L. AFTER LEVEL: \_\_\_\_\_

WELL DEPTH BEFORE LEVEL: 1.1 hrs

WELL DEPTH AFTER LEVEL: \_\_\_\_\_

STANDING WATER COLUMN (ft): 30' (100-70)

STANDING WELL VOLUME: \_\_\_\_\_

SPILLING WATER LOSS: \_\_\_\_\_

DATE/TIME	FLOW RATE (GPM)	FLOW RATE (LPM)	SPR (in)	FIELD PARAMETERS										WELL DEPTH (ft)
				SP (ft)	IN (in)	TEMP (°C)	TEMP (°F)	Color	SS (ppm)	OP (ppm)				
4/8 12:45	5.0	0.33	1.8	96.6	0.24	26.5	80	1000	brown	3.21	104.6	97.5	Top of Pump (600)	
12:50	7.5	0.5	25.1	9.50	0.24	24.5	2000	brown	1.85	108.4	97.5			
13:05	10	0.67	54.9	7.7	0.22	25.2	1000	brown	2.51	112.7	97.5			
13:20	7.5	0.5	87.3	7.29	0.25	23.8	2000	brown	3.91	112.6	97.5			
13:35	3.5	0.23	95.2	7.15	0.23	24.8	103	clear	3.20	104.4	97.5			
13:50	1.5	0.10	96.5	8.62	0.24	24.0	79	clear	11.53	105.6	97.5			
14:05			72.7										Stopped Pumping to allow recharge	
14:15			84.3											
14:25			77.0											
14:35			71.4											
14:45	7.6	0.5	62.0	3.3	0.25	26.3	629	cloudy	9.48	124.7	97.5			
15:00	7.5	0.5	82.5	3.00	0.26	28.2	2000	brown	6.89	127.8	97.5			
15:15	5.0	0.33	92.4	2.18	0.26	25.2	66.8	clear	3.63	127.7	97.5			
15:30	-	-	76	18.5	0.27	22.4	36.3	clear	7.14	131.0	97.5			
15:40			71.6	2.00	0.26	25.2	2000	brown	9.41	132.6	97.5			
16:25			71.0											
8:00			3.1	6.71	0.27	17.6	104	clear	3.82	127.3	97.5			
9:10	5.0	0.33	25.4	9.21	0.34	19.3	71	brown	4.49	127.5	97.5			
9:25	2.5	0.17	27.4	9.56	0.34	20.2	72	brown	4.75	128.7	97.5			
9:40	4.0	0.27	49.3	9.49	0.30	20.5	779	brown	4.00	128.5	97.5			
9:55	5.0	0.33	20.6	7.58	0.30	20.3	513	cloudy	3.48	128.0	97.5			
10:10	5.0	0.33	71.0	10.4	0.43	20.5	77	clear	3.78	121.5	97.5			
10:25	5.0	0.33	28.9	9.53	0.35	20.6	112	clear	4.58	111.6	97.5			
10:40	5.0	0.33	87.6	7.24	0.30	20.7	71.7	clear	3.11	104.1	97.5			
10:55	4.0	0.27	86.5	7.18	0.31	21.0	72.4	clear	7.66	120.4	97.5			
11:10	4.0	0.27	36.5	9.24	0.35	20.5	12.6	clear	5.27	109.6	97.5			
11:25	6.0	0.40	33.5	9.41	0.45	20.5	2000	brown	7.17	116.7	97.5			
11:40	-	-	36.5	7.51	0.37	20.0	79.3	clear	7.20	119.3	97.5			
11:50			76.0										Paused to allow recharge.	
12:00			72.2											
12:05	2.5	0.17	26.5	7.33	0.36	19.2	1000	brown	3.99	115.6	87.5			
12:20	5.0	0.33	30.5	7.31	0.33	19.2	187	clear	8.26	111.9	87.5			
12:35													End of Day	
	1035													

DEVELOPMENT METHOD: \_\_\_\_\_

NOTES:

Pulled off Developing to allow pad to be built & casing installed.

Development will resume next week (4/13)

*[Signature]*

5/28/2020

Golder Associates

Product Name: Low-Flow System

Date: 2020-05-29 15:20:57

Project Information:

Operator Name H. Brissey  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.5 in  
Tubing Length 86.6 ft

Pump placement from TOC 86.6 ft

Well Information:

Well ID PZ-60D  
Well diameter 2 in  
Well Total Depth 100 ft  
Screen Length 30 ft  
Depth to Water 50 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 3.433706 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:54:15	1199.99	23.00	7.99	311.80	4.49	50.88	1.20	36.92
Last 5	14:59:15	1499.98	23.19	7.99	311.64	5.16	50.50	1.05	30.45
Last 5	15:04:18	1802.98	23.47	7.99	313.24	6.43	49.45	0.95	23.97
Last 5	15:09:31	2115.97	23.78	7.99	312.76	7.49	48.62	0.83	19.02
Last 5	15:14:38	2422.96	23.13	7.99	313.93	7.19	48.35	0.75	15.02
Variance 0			0.29	-0.00	1.60			-0.11	-6.48
Variance 1			0.31	0.00	-0.48			-0.12	-4.96
Variance 2			-0.64	0.00	1.17			-0.08	-3.99

Notes

Grab Samples



WELL DEVELOPMENT FIELD RECORD

PROJECT NAME: 20139484 WELL ID: P2-605  
 WELL TAG NO: 2 WELL TAG NO: 2  
 DEVELOPER: JMS DATE OF INSTALL: 5/15/2015  
 START DATE: 9/1/2015 COMPLETED DATE: 9/15/2015 1100  
 WELL DEPTH (TOTAL): 20.5 (corrected) (20.7) (20.7) WELL DEPTH (CORRECTED): 20.5  
 STANDING WATER COLUMN (FT.): 10 (10'-20" log) STANDING WELL COLUMN: 20.5  
 RETURN LENGTH: 10 (10'-20" log) DRILLING WATER LOSS: 0

\* Casing & Pad not on well yet. Depths are total ft. logs

DTW  
 7.7  
 ↓  
 6.5  
 ↓  
 5.3  
 ↓  
 4.1  
 ↓  
 3.2

TIME	DEPTH (FT)	TEMP (°F)	PRESS (PSI)	LOG PARAMETERS										REMARKS
				CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	
10:10	15	18	9.9	6.90	0.07	28.95	26.01	brn	5.07	87.5	19.7			
10:25	11	0.7	9.9	6.75	0.07	28.55	25.81	brn	5.06	88.7	19.7			
10:40	7.5	0.5	8.7	6.69	0.06	28.04	25.55	brn	5.06	88.7	17.7			
10:55	5.0	0.36	8.7	6.52	0.07	28.78	25.12	brn	5.06	88.7	20.7			
11:10	11	0.7	8.7	6.52	0.07	28.00	24.91	brn	5.07	89.1	20.7			
11:25	7.5	0.5	8.7	6.36	0.06	27.76	24.82	brn	5.07	88.6	20.7			
11:40	7.5	0.5	8.7	6.36	0.07	27.95	24.82	brn	5.06	86.4	20.7			
11:55	7.5	0.5	8.7	6.36	0.07	28.51	24.79	brn	5.06	87.1	20.7			
12:10	7.5	0.5	8.7	6.36	0.06	29.00	24.60	brn	5.08	78.9	20.7			
12:25	7.5	0.5	8.7	6.36	0.06	28.67	24.51	brn	5.08	76.4	20.7			
12:40	7.5	0.5	8.7	6.36	0.06	28.64	24.53	clear	5.03	98.0	20.7			
12:55	7.5	0.5	8.7	6.29	0.06	28.54	24.53	clear	5.00	96.8	20.7			
13:10	7.5	0.5	8.7	6.19	0.06	28.76	24.53	clear	5.00	100.5	20.7			
13:25	7.5	0.5	8.7	6.08	0.06	28.73	24.53	clear	5.75	102.6	20.7			
13:40	7.5	0.5	8.7	6.08	0.06	29.10	24.7	clear	4.58	106.1	20.7			
13:55	7.5	0.5	8.7	6.06	0.06	28.09	24.71	clear	3.91	110.5	20.7			
14:10	7.5	0.5	8.7	6.06	0.06	28.57	24.80	clear	5.04	119.0	20.7			
14:25	7.5	0.5	8.7	6.11	0.06	28.77	24.82	clear	5.71	118.6	20.7			
14:40	7.5	0.5	8.7	6.09	0.06	28.82	24.9	clear	5.81	118.6	20.7			
14:55	7.5	0.5	8.7	6.08	0.06	28.00	25.3	clear	3.72	128.2	20.7			
15:10	7.5	0.5	8.7	6.43	0.06	28.05	25.37	clear	5.35	129.7	20.7			
15:25	7.5	0.5	7.0	6.20	0.03	25.57	19.85	brn	8.14	144.8	16.5			
15:40	7.5	0.5	7.7	6.22	0.03	27.85	25.2	clear	3.17	128.6	16.5			
15:55	7.5	0.5	7.7	6.0	0.05	23.41	20.9	clear	2.64	125.6	16.5			
16:10	7.5	0.5	7.7	6.35	0.05	25.10	22.4	clear	4.91	155.7	16.5			
16:25	7.5	0.5	8.7	6.37	0.05	22.85	21.7	brn	5.37	161.1	16.5			
16:40	11.0	0.7	6.3	7.14	0.08	18.15	15.1	brn	7.18	162.1	16.5			
7:05	11.0	0.7	7.9	6.57	0.06	19.15	17.7	clear	6.13	86.9	16.5			
7:30	11.0	0.7	8.0	6.45	0.06	17.32	16.9	clear	8.02	86.0	16.5			
9:35			8.9	6.91	0.06	17.17	17.7	clear	6.32	87.5	16.5			
Low = Flow														
240														

Corrected (first logs)  
 17.5  
 ↓  
~~20.5~~ 18.5  
 ↓  
 19.3  
 ↓  
 19.3  
 ↓  
 16.5

DEVELOPMENT METHOD: Ending low flow DTW: 4.4

5/28/2020

Product Name: Low-Flow System

Date: 2020-04-08 10:53:00

Project Information:

Operator Name H Brissey  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 512733  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 16.5 ft

Pump placement from TOC 16.5 ft

Well Information:

Well ID PZ-60s  
Well diameter 2 in  
Well Total Depth 20.5 ft  
Screen Length 10 ft  
Depth to Water 6.8 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.4483577 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:36:19	300.09	18.55	5.99	59.27	2.56	4.60	3.58	75.77
Last 5	10:41:19	600.02	18.61	5.93	59.81	1.82	4.40	3.44	73.76
Last 5	10:46:19	900.02	18.53	5.92	59.58	1.66	4.40	3.26	73.21
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.07	-0.06	0.54			-0.14	-2.01
Variance 2			-0.08	-0.00	-0.23			-0.18	-0.55

Notes

See field form for DTWs

Grab Samples

WELL DEVELOPMENT FIELD RECORD

page 1 of 1

PROJECT NAME / NUMBER: 20139484  
 WELL ID: PZ-61  
 WELL DIA IN: 2"  
 DEVELOPER BY: M. Boatman  
 DATE OF INSTALL: 4/17/2020  
 STARTED DEVEL: 11/2/2010  
 COMPLETED DEVEL: 11/16/2010  
 WL BEFORE DEVEL: 12.8' @ 10:50  
 WL AFTER DEVEL: 16.7 @ 11:44  
 WELL DEPTH BEFORE DEVEL: 49.8'  
 WELL DEPTH AFTER DEVEL: 49.8'  
 STANDING WATER COLLARS (FT): 5.4'  
 STANDING WELL VOLUME: 6.83 gal  
 SURFACE LENGTH: 10'  
 SPILLING WATER LINE: \_\_\_\_\_ gal

WELL ID: PZ-61  
 WELL DIA IN: 2"  
 DATE OF INSTALL: 4/17/2020  
 COMPLETED DEVEL: 11/16/2010  
 WL BEFORE DEVEL: 12.8' @ 10:50  
 WL AFTER DEVEL: 16.7 @ 11:44  
 WELL DEPTH BEFORE DEVEL: 49.8'  
 WELL DEPTH AFTER DEVEL: 49.8'  
 STANDING WATER COLLARS (FT): 5.4'  
 STANDING WELL VOLUME: 6.83 gal  
 SPILLING WATER LINE: \_\_\_\_\_ gal

DATE/TIME	WELLING REMOVED (GAL)	PUMPING RATE (GPM)	DPP (PSI)	FIELD PARAMETERS							REMARKS
				PH (0-1)	Sp. Cond (µmhos/cm)	TEMP (°F)	Turbidity (NTU)	Color	NO <sub>3</sub> (mg/L)	OP (mg/L)	
11:00	250 gal		12.8	6.59	328.2	71.0	12.6	Cloudy	5.70	-78.8	
11:20	5.0		16.6	6.66	298.4	20.36	8.93	Clear	7.34	-28.3	increase flow rate
11:35	10		37.9	6.82	323.2	20.11	8.60	clear	8.30	-7.3	compressor stoppage, will have to start over
Restart											
12:00			14.6								
12:20	5.0	.36	24.0	6.84	265.9	21.89	7.66	Clear	3.76	-114.0	
12:30	5.0	.36	57.4	6.75	219.6	21.05	24.3		7.16	-7.6	increase flow rate, well recharge w/ current rate
12:40	5.0	.50	34.8	6.77	250.2	20.35	12.16		6.37	-2.8	Surge, mid-screen
12:50	5.0	.50	34.0	6.70	248.3	20.85	20.7		7.73	-6.7	
13:00	5.0	.50	35.0	6.77	237.1	20.79	3.62		7.94	24.3	
13:10	5.0	.50	36.5	7.09	237.3	20.51	5.47		8.40	38.8	
13:20	5.0	.50	36.0	7.24	233.4	20.72	1.90		8.57	52.8	Surge
13:30	5.0	.50	36.0	7.25	232.5	21.45	21.8		8.06	32.6	
13:40	5.0	.50	37.1	7.18	234.9	20.8	6.89	↓	7.05	23.7	Setup incl. flow

53 - TOTAL VOLUME REMOVED (GAL)

DEVELOPMENT METHOD: 1 1/2" Reclaimer

NOTES: \_\_\_\_\_



5/28/2020

Product Name: Low-Flow System

Date: 2020-04-13 14:50:26

Project Information:

Operator Name M.L.Boatman  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID PZ-61  
Well diameter 2 in  
Well Total Depth 49.8 ft  
Screen Length 10 ft  
Depth to Water 12.8 ft

Pumping Information:

Final Pumping Rate 460 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:29:32	1800.02	21.45	6.37	231.00	2.07	16.80	2.66	-98.65
Last 5	14:34:32	2100.02	21.49	6.37	231.41	1.31	16.80	2.69	-108.05
Last 5	14:39:32	2399.93	21.54	6.38	231.57	1.33	16.70	2.66	-113.42
Last 5	14:44:32	2699.93	21.54	6.35	232.48	1.65	16.70	2.63	-117.26
Last 5	14:49:32	2999.93	21.63	6.36	232.59	1.45	16.70	2.62	-121.27
Variance 0			0.05	0.00	0.16			-0.03	-5.36
Variance 1			0.00	-0.03	0.91			-0.03	-3.84
Variance 2			0.09	0.02	0.12			-0.01	-4.01

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER 20139484  
 WELL DIA (in) 2  
 DEVELOPED BY J. WAGUESPACE  
 STARTED DEVEL. 04.16 109:56  
 DATE TIME  
 W.L. BEFORE DEVEL. 38.67 04.16 09:30  
 WL DATE TIME  
 WELL DEPTH. BEFORE DEVEL. 55.55  
 STANDING WATER COLUMN (FT.) 16.88  
 SCREEN LENGTH 45.55 - 55.55, 10'

WELL ID: PZ-62  
 WELL DIA (in) 2  
 DATE OF INSTALL. \_\_\_\_\_  
 COMPLETED DEVEL. 04.16 1429  
 DATE TIME  
 WL AFTER DEVEL. 44.75 04.16 14:28  
 WL DATE TIME  
 WELL DEPTH. AFTER DEVEL. 455.55  
 STANDING WELL VOLUME 2.75 gal.  
 DRILLING WATER LOSS \_\_\_\_\_ gal.

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	DTW (ft)	FIELD PARAMETERS							PUMP FROM BOTTOM REMARKS
				pH (s.u.)	Sp. Cond. (mS/cm)	TEMP. (°C)	Turbidity (NTU)	Color	RDO (mg/L)	ORP (mV)	
10:00	5		47.31	7.20	0.13	17.86	>100.0	BRO	10.52	100.7	6"
			DTW BELOW SCREEN + DEV	PAUSED FOR RECHARGE							
10:07	RESUME	1400	AL/min								
10:13	10		45.65	6.83	0.15	18.29	100.5	TAN	3.47	-67.0	SURGING
10:21	15	0.5	47.75	6.79	0.15	18.25	220	MURKY	8.87	26.4	FLOWRATE ↑
10:31	20		51.75	7.00	0.15	18.15	141	TAN	9.89	72.2	
10:41	25		51.73	7.23	0.14	18.23	89.2	MURKY	10.03	74.4	SURGING
11:01	35		51.55	7.14	0.13	18.30	25.6	CLR	10.27	85.6	SURGING
11:11	40		51.45	7.17	0.13	18.33	44.2	CLR	10.24	81.5	PUMP → 3'
11:21	RESUME	-	44.10	7.04	0.14	18.87	100	MURKY	7.38	51.0	FLOWRATE ↓ 1400 ml/min
11:31	45	0.5	47.05	6.68	0.13	18.52	919	TAN	5.48	22.1	SURGING
11:41	50		48.48	6.73	0.13	18.34	95	MURKY	10.41	83.8	SURGING
12:01	60		48.60	7.06	0.13	18.47	30.8	CLR	10.22	81.8	PUMP → 6'
12:10	RESUME	-	41.41	7.18	0.13	18.96	107	TAN	9.06	82.7	RECHARGING, SURGE ENTIRE SCREEN @ 6', SURGING, FLOWRATE ↓ 1000 ml/min
12:23	65		45.60	6.66	0.13	18.68	156	TAN	9.28	65.6	
12:34	70		45.56	7.04	0.13	18.51	41.9	GRISA	10.06	78.8	PUMP → 9'
12:51	75		44.70	7.18	0.13	18.60	43.1	MURKY	9.92	84.3	PUMP → 6"
13:05	80		46.03	6.66	0.12	18.56	67.2	MURKY	3.67	+6.2	SURGING
13:16	85		50.80	6.82	0.12	18.27	716	TAN	9.64	76.6	FLOWRATE ↑, SURGING
13:26	90		57.70	7.04	0.12	18.26	70.9	CLR	10.12	80.0	
13:36	95		57.80	7.14	0.12	18.98	23.3	CLR	10.23	83.1	PUMP → 5'
13:53	100		46.56	7.26	0.12	18.33	40.9	CLR	10.10	85.8	BEGIN LOW FLOW
	100	= TOTAL VOLUME REMOVED (gal)									

WELL RECHARGING, SURGE SCREEN  
 FLOWRATE ↓ 1000 ml/min  
 RECHARGING, SURGE ENTIRE SCREEN  
 FLOWRATE ↓ 1000 ml/min

DEVELOPMENT METHOD: RECLAIMER + SURGING

NOTES:

5/28/2020

**PURGING AND SAMPLING FORM**

20139484

Project #: <u>166235018</u>	Project Name/Site Name: SCS Plant Scherer		Page: <u>1</u> of <u>1</u>
Well ID #: <u>P2-62</u>	Date: <u>04.16.20</u>	Water Level (ft): <u>41.0</u>	Time (WL): <u>14:00</u>
Physical Condition of Well: <u>GOOD</u>		Weather: <u>SUNNY, HIGH 70°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>55.55</u>	Water Column (ft): <u>14.55</u>	Well Volume (gal): <u>2.37</u>
Start Purge: <u>14:03</u>	End Purge: <u>1429</u>	Top of Pump (ft): <u>~50</u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>12.5</u>	
Evacuation Equipment: <u>RECLAIMER</u>		Purging Personnel: <u>JUDE WAGVESTACK</u>	
SmarTroll serial #: <u>646770</u>		Lamotte serial #: <u>2279-2612</u>	

**Purge Data/Field Parameters**

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>1429</u>	<u>CLR</u>	<u>NONE</u>	<u>6.45</u>	<u>116.83</u>	<u>5.71</u>	<u>18.33</u>	<u>4.20</u>	<u>3.15</u>	<u>44.75</u>	<u>500 mL/min</u>

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

**Sample Description**

Sample ID: NO SAMPLE      Sample Date/Time: \_\_\_\_\_      Metals Date/Time: \_\_\_\_\_  
 Duplicate: \_\_\_\_\_      Dup Date/Time: \_\_\_\_\_      Final Turbidity NTU: \_\_\_\_\_  
 Field Blank: \_\_\_\_\_      Blank Date/Time: \_\_\_\_\_      Turbidity Date/Time: \_\_\_\_\_

# Sample Bottles	Container	Preservative	Analyte(s)
	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III &amp; IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)</u>
	<u>500 mL plastic</u>	<u>-</u>	<u>Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)</u>
	<u>1L plastic</u>	<u>HNO3</u>	<u>Radium 226/228 (SW-846 9315/9320)</u>

Signature: [Signature]

NO SAMPLE, WELL DEVELOPMENT

[Signature] 5/28/2020



Product Name: Low-Flow System

Date: 2020-04-16 14:31:21

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 50 ft

Pump placement from TOC 50 ft

Well Information:

Well ID PZ-62  
Well diameter 2 in  
Well Total Depth 55.55 ft  
Screen Length 10 ft  
Depth to Water 41.00 ft

Pumping Information:

Final Pumping Rate 500 mL/min  
Total System Volume 1.175932 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 45 in  
Total Volume Pumped 12.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:08:48	300.11	18.58	6.84	120.53	17.70	43.89	6.67	29.36
Last 5	14:13:48	600.02	18.42	6.60	122.52	10.28	44.68	5.77	19.65
Last 5	14:18:48	900.01	18.46	6.50	116.92	6.96	44.60	6.05	13.12
Last 5	14:23:48	1200.01	18.39	6.46	116.44	4.28	44.90	5.86	7.31
Last 5	14:28:48	1500.01	18.33	6.45	116.83	3.15	44.75	5.71	4.20
Variance 0			0.04	-0.10	-5.61			0.29	-6.53
Variance 1			-0.07	-0.04	-0.47			-0.20	-5.80
Variance 2			-0.06	-0.01	0.39			-0.15	-3.12

Notes

Grab Samples

**WELL DEVELOPMENT FIELD RECORD**

Page 1 of 1

PROJECT NAME / NUMBER: 2-1130484  
 WELL ID: 1  
 DEVELOPER BY: Juan Rodriguez  
 STARTED DEVL: 05/22 / 15:30  
 WELL BEFORE DEVL: 11.50 / 11.50  
 WELL DEPTH BEFORE DEVL: 72.72  
 STANDING WATER COLUMN FT: 26.22  
 SCREEN LENGTH: 10'

WELL ID: PZ-63  
 WELL ID #1: 1  
 DATE OF INSTALL: 05/22 / 15:30  
 COMPLETED DEVL: 05/22 / 15:30  
 WEL AFTER DEVL: 21.50 / 15:34  
 WELL DEPTH AFTER DEVL: 42.72  
 STANDING WELL VOLUME: 4.27 m<sup>3</sup>  
 DRILLING WATER LOSS: 0 m<sup>3</sup>

DATE/TIME	VOLUME REMOVED (m <sup>3</sup> )	PUMPING RATE (m <sup>3</sup> /HR)	DTH (m)	FIELD PARAMETERS								PUMP STATUS / REMARKS / BOTTOM
				IN (m/s)	IN (m/min)	TEMP (°C)	THICK (mm)	CLAY (%)	SS (%)	SPM (ppm)	OPR (m/s)	
05/22/15:30	5		27.03	6.37	0.29	19.06	2800	200	1.55	26.7	1	circulate
12:25	10		27.35	6.38	0.29	19.10	2800	200	1.51	26.2	1	
12:36	15	0.5	28.18	6.31	0.29	19.00	199	200	2.76	26.7	1	circulate
12:43	20		28.82	6.24	0.28	19.02	267	200	1.82	26.1	1	circulate
12:53	30		29.55	6.19	0.28	19.06	300	200	2.06	24.8	1	circulate
13:03	35		30.12	6.17	0.28	19.06	285	200	2.36	23.9	1	circulate → 4'
13:32	45		30.25	6.37	0.28	19.00	23.7	200	2.45	24.7	1	circulate + 2.00 m <sup>3</sup>
13:43	50		30.13	6.26	0.28	19.00	241	200	2.34	24.1	1	circulate
14:03	60		32.85	6.90	0.4	19.00	45.1	200	6.37	22.7	1	circulate → 8'
14:13	65		29.65	6.37	0.28	18.95	249	200	7.46	24.0	1	circulate
14:21	70		30.32	6.40	0.28	18.97	211	200	7.79	26.8	1	circulate
14:43	80		30.30	6.36	0.28	18.97	22.5	200	7.87	22.0	1	circulate → 1'
14:53	85		27.90	6.15	0.19	18.95	30.2	200	1.24	25.9	1	circulate → 5'
15:02	90		27.12	6.18	0.22	18.87	32.1	200	2.62	21.3	1	circulate → 5'

90 - TOTAL VOLUME REMOVED (m<sup>3</sup>)

DEVELOPMENT METHOD: Refracture & Surfactant  
 NOTES: Refracture @ 1'/15'

*[Signature]*

5/28/2020



**PURGING AND SAMPLING FORM**

20139424

Project #: 168235018	Project Name/Site Name: SCS Plant Scherer		Page: 1 of 1
Well ID #: P2-63	Date: 09/22/2020	Water Level (ft): 24.5	Time (WLT): 15:4
Physical Condition of Well: GOOD	Weather: Cloudy 78°F		
Well Diameter (in): 2	Well Depth (ft): 42.72	Water Column (ft): 20.72	Well Volume (gal): 3.37
Start Purge: 15:14	End Purge: 15:34	Top of Pump (ft): -3.8	
Evacuation Method: Low-Flow	Volume Removed (L): 15		
Evacuation Equipment: Recumbent	Purging Personnel: Jim Winkler		
SmartTroll serial #: 646770	Lamotte serial #: 2271 - 2612		

**Purge Data/Field Parameters**

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
15:51	CLR	None	6.7	198.58	2.10	19.14	67.80	10.79	20.15	500 $\frac{L}{min}$

Stabilization Criteria: pH  $\pm$  0.1 S.U., Conductivity  $\pm$  5%, Dissolved Oxygen  $\pm$  10% or 0.2Mg/L (whichever is greater, for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity  $\leq$  5 NTU; Purge volume  $\geq$  2L purge water, water level  $\leq$  0.3 ft; Temp and ORP record only

**Sample Description**

Sample ID: 500 50m P-63      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)
/	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Bi, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic	-	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9015/9020)

Signature: [Signature]

NO SAMPLE, NEW FARM DEVELOPMENT

[Signature] 5/28/2020



Product Name: Low-Flow System

Date: 2020-04-22 15:37:02

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 38 ft

Pump placement from TOC 38 ft

Well Information:

Well ID PZ-63  
Well diameter 2 in  
Well Total Depth 42.72 ft  
Screen Length 10 ft  
Depth to Water 20.0 ft

Pumping Information:

Final Pumping Rate 500 mL/min  
Total System Volume 0.9153085 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.6 in  
Total Volume Pumped 15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:19:30	300.09	19.34	6.11	197.95	16.90	20.10	2.30	71.94
Last 5	15:24:30	600.02	19.22	6.10	198.78	11.40	20.04	2.08	70.52
Last 5	15:29:30	900.02	19.20	6.09	199.43	15.10	20.05	2.11	69.94
Last 5	15:34:30	1200.01	19.14	6.09	198.58	10.79	20.05	2.10	68.76
Last 5									
Variance 0			-0.12	-0.01	0.83			-0.22	-1.42
Variance 1			-0.01	-0.00	0.65			0.03	-0.58
Variance 2			-0.06	-0.00	-0.85			-0.01	-1.18

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER: 20137484  
 WELL ID: 2  
 DEVELOPER: J. Wallace Spence  
 STARTED DATE: 04-15-10  
 WELL BEFORE LEVEL: 88.72  
 WELL DEPTH BEFORE LEVEL: 73.20  
 STANDING WATER COLUMN (FT): 27.78  
 SCREEN LENGTH: 10

WELL ID: PZ-64  
 WELL ID BY: 2  
 DATE OF INSTALL: 04-15-10  
 COMPLETED DATE: 04-18-10  
 RL AFTER LEVEL: 51.40  
 WELL DEPTH AFTER LEVEL: 73.20  
 STANDING WELL VOLUME: 4.85  
 DRILLING WATER LOSS: 0

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DPM (FT)	FIELD PARAMETERS										PPH bottom			
				WT (GAL)	To Cond (INCH)	TEMP (°F)	Surf. (PSI)	Case (PSI)	ROD (INCH)	OP (INCH)							
04-15/14:00	5	0.23	52.85	---	---	---	7800	---	---	---	---	---	---	---	---	---	---
14:08	10		59.98	7.85	0.35	29.0	60.6	chd.	116.0	100.0							prop. 6"
14:22	15		59.50	7.37	0.19	28.5	171	mud	8.50	65.5							logging
14:28	20		56.10	7.45	0.33	28.85	111	mud	10.10	49.1							logging
14:33	25		56.15	7.46	0.37	19.27	99	mud	10.10	40.6							logging
14:37	30		57.15	7.48	0.33	19.26	107	mud	9.77	52.3							logging
14:40	---	0.25	50.15	---	---	---	10.2	---	---	---	---	---	---	---	---	---	---
15:03	---	0.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15:05	35	0.23	50.10	7.16	0.37	20.31	123	mud	10.07	60.1							42.75' dev
15:11	40		57.15	7.20	0.31	20.16	127	mud	9.72	57.1							logging
15:26	50		56.70	7.11	0.28	20.23	126	---	9.57	53.8							logging
15:35	60		57.20	7.48	0.39	20.19	24.9	---	9.37	57.9							-> 3'
15:40	70		57.10	7.48	0.39	20.16	34	mud	9.77	49.6							logging
15:58	80		58.20	7.52	0.27	20.12	72	mud	10.26	59.7							logging
16:11	90		57.30	7.57	0.24	20.27	20.9	---	9.42	52.8							logging
16:24	100		57.20	7.52	0.24	20.16	48.0	mud	9.68	69.9							logging
16:31	105		57.20	7.48	0.34	20.10	58.2	---	9.47	65.1							dev 6'
16:38	110		57.10	7.49	0.34	19.28	100.3	mud	10.07	59.5							logging
16:45	115		57.20	7.00	0.10	19.33	49	---	9.12	52.9							logging
16:53	120		52.60	7.98	0.17	20.63	48.2	---	7.12	50.2							-> 2'
17:02	125		57.20	7.10	0.37	21.18	62	mud	10.57	57.3							logging
17:11	130		57.40	7.52	0.33	21.27	25.1	mud	10.23	69.7							logging
17:29	140		57.10	7.56	0.33	20.79	20.6	---	9.97	61.3							-> 6"
17:34	145		57.8	7.54	0.33	20.24	48.9	---	10.15	62.2							logging
17:39	150		60.1	7.56	0.37	20.31	26.6	---	7.45	60.3							logging
17:44	155		59.3	7.50	0.22	20.20	17.6	---	7.49	62.9							-> 3'
17:52	160		59.5	7.46	0.37	21.27	17.3	---	9.92	62.0							-> 2'
18:00	165		59.5	7.44	0.33	22.09	16.0	---	9.93	69.6							-> 5' dev 2'
165		= TOTAL VOLUME REMOVED (GAL)															

DEVELOPMENT METHOD: RECLAIMER + S-30-140

NOTES:

*[Signature]*

**PURGING AND SAMPLING FORM**

20139484

Project # <u>166266915</u>		Project Name/Site Name: <u>SCS Plant Scherer</u>		Page: <u>1</u> of <u>1</u>	
Well ID #: <u>PZ-64</u>	Date: <u>04-15-20</u>	Water Level (ft): <u>53.62</u>	Time (ML): <u>12:11</u>		
Physical Condition of Well: <u>Good</u>			Weather: <u>Sunny</u>		
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>75.20</u>	Water Column (ft): <u>19.58</u>	Well Volume (gal): <u>3.17</u>		
Start Purge: <u>12:14</u>	End Purge: <u>12:33</u>	Top of Pump (ft): <u>-68</u>			
Evacuation Method: <u>Low-Flow</u>			Volume Removed (L): <u>12.5 L</u>		
Evacuation Equipment: <u>REUMER</u>			Purging Personnel: <u>Josh Waggener</u>		
SmarTroll serial #: <u>646770</u>			Lamotte serial #: <u>2279 - 2612</u>		

**Purge Data/Field Parameters**

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (µS/cm)	DO (mg/L)	Temp (C)	ORP (mv)	Turbidity (NTU)	DTW (S.BTOC)	Pumping Rate
<u>12:31</u>	<u>CLR</u>	<u>None</u>	<u>6.52</u>	<u>320.54</u>	<u>2.60</u>	<u>12.64</u>	<u>-6.70</u>	<u>6.17</u>	<u>53.4</u>	<u>500 <math>\frac{L}{min}</math></u>
<del>_____</del>										
<del>_____</del>										
<del>_____</del>										
<del>_____</del>										
<del>_____</del>										
<del>_____</del>										

Stabilization Criteria: pH  $\pm$  0.1 S.U., Conductivity  $\pm$  5%, Dissolved Oxygen  $\pm$  10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity  $\leq$  5 NTU; Purge volume  $\geq$  3L purge water, water level  $\leq$  0.3 ft; Temp and ORP record only

**Sample Description**

Sample ID: NO SAMPLE      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)
<del>_____</del>	<del>250 mL plastic</del>	<del>HNO3</del>	<del>Metals App III &amp; IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 8020/7470)</del>
<del>_____</del>	<del>500 mL plastic</del>	<del>-</del>	<del>Anions/Total-Dissolved Solids (EPA 300.0/SM 2540C)</del>
<del>_____</del>	<del>1 L plastic</del>	<del>HNO3</del>	<del>Radium 226/228 (SM-946-9315/9320)</del>
<del>_____</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>
<del>_____</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>

Signature: [Signature]

NO SAMPLE DEVELOPMENT COMPLETE

[Signature] 5/28/2020



Product Name: Low-Flow System

Date: 2020-04-15 18:42:53

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 68 ft

Pump placement from TOC 68 ft

Well Information:

Well ID PZ-64  
Well diameter 2 in  
Well Total Depth 73.20 ft  
Screen Length 10 ft  
Depth to Water 53.62 ft

Pumping Information:

Final Pumping Rate 500 mL/min  
Total System Volume 1.566868 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 12.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	18:19:37	300.11	18.97	6.94	324.24	13.10	53.85	2.52	16.35
Last 5	18:24:37	600.03	18.78	6.68	325.04	9.21	53.65	2.65	4.35
Last 5	18:29:37	900.02	18.71	6.57	316.71	8.15	53.65	2.73	2.18
Last 5	18:34:37	1200.02	18.69	6.55	318.53	7.84	53.40	2.63	-3.51
Last 5	18:39:37	1500.01	18.64	6.52	320.54	6.17	53.40	2.60	-6.76
Variance 0			-0.07	-0.11	-8.33			0.08	-2.17
Variance 1			-0.03	-0.02	1.83			-0.10	-5.70
Variance 2			-0.05	-0.03	2.00			-0.03	-3.25

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

no. 1 of 2

PROJECT NAME NUMBER 2018-184

WELL ID: 2

DEVELOPER BY: J. W. Adams

STARTED DEVL: 04/16/15 15:31

WL BEFORE DEVL: 15.41 @ 15:15

WELL DEPTH BEFORE DEVL: 33.07

STANDING WATER COLUMN (FT): 17.41

SCREEN LENGTH: 10'

WELL ID: P2-65

WELL ID: 2

DATE OF METAL: 4-8-20

COMPLETED DEVL: 04/17/15 11:11

WL AFTER DEVL: 26.09 @ 11:11

WELL DEPTH AFTER DEVL: 38.07

STANDING WELL VOLUME: 2.87

DRAWING WATER LOSS: —

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DTH (FT)	FIELD PARAMETERS							PUMP FROM BOTTOM REMARKS
				SPH	TO OIL (%)	TEMP (°F)	Turbidity (NTU)	Color (PCU)	REC (mg/L)	DPH (GAL)	
04/16/15 15:31	5		28.50	6.35	0.16	17.13	700	820	8.17	67.0	6" sub-10
15:38	6	0.53	27.71	7.01	0.16	17.65	205	700	8.76	68.6	DRY, RECHARGE @ 11/20 sec
15:52	11		28.25	7.01	0.15	17.92	700	800	7.72	62.3	sub-10
16:01	14		27.31	7.30	0.16	17.42	700	800	7.28	69.6	DRY, RECHARGE
16:15	17		30.48	7.02	0.16	17.97	717	700	7.46	67.1	sub-10
16:28	22		29.70	7.27	0.15	17.91	200	700	7.44	72.1	sub-10
16:40	24		28.66	7.15	0.15	17.37	672	700	7.75	70.3	sub-10
16:45	27		29.60	7.02	0.15	17.35	1087	700	9.15	72.5	sub-10
16:55	33		29.50	7.18	0.15	17.34	254	600	9.31	75.0	RECHARGE
17:10	38		27.80	6.99	0.14	17.35	1128	600	8.36	76.7	sub-10
17:21	43		27.31	7.04	0.14	17.34	26.3	600	9.93	73.9	RECHARGE
17:32	44		25.12	7.09	0.14	17.35	803	700	7.04	60.7	sub-10
17:36	48		27.31	6.92	0.14	17.36	106	700	7.37	72.3	RECHARGE
17:53	53		26.4	6.94	0.14	17.36	124	700	7.82	72.0	sub-10, RECHARGE
18:05	54		25.12	6.97	0.14	17.35	876	700	6.78	55.9	sub-10
18:09	58		29.74	6.91	0.13	17.31	125	700	7.25	71.4	RECHARGE
18:26	63		28.48	6.99	0.14	17.37	16	700	7.14	58.7	sub-10
18:33	65		27.31	6.97	0.14	17.31	25.9	600	8.71	70.0	RECHARGE
18:44	68		25.40	7.01	0.14	17.35	101	700	8.06	69.9	sub-10
18:52	73		27.31	6.97	0.14	17.26	20.2	600	7.94	70.7	RECHARGE
19:03	-		29.40	6.98	0.14	17.26	137	700	7.52	58.9	sub-10
19:08	78		7.31	6.90	0.13	17.32	51	700	8.52	73.3	sub-10
09/17/20	-		15.53	-	-	86.00	200	7/17	-	-	@ 6" sub-10
09:26	283	0.38	26.10	6.40	0.14	17.12	65.3	700	7.63	81.0	sub-10
09:35	288		27.31	6.69	0.14	17.17	59.5	700	7.78	90.7	RECHARGE
09:51	43		29.65	6.74	0.13	17.22	677	700	7.20	92.4	JUMP @ 9'
10:10	42		25.40	6.26	0.14	17.29	2000	700	7.90	96.4	sub-10, FINAL SCREEN
10:17	103		27.31	6.81	0.14	17.46	16.9	600	8.63	100.7	RECHARGE
10:34	102		29.5	6.26	0.13	17.35	2000	700	7.57	97.9	sub-10, FINAL SCREEN
10:50	113		28.15	6.70	0.13	17.37	2000	700	7.31	99.4	RECHARGE
11:06	118		25.5	6.85	0.14	17.58	72.3	700	6.97	100.1	sub-10
11:14	123		30.5	6.72	0.13	17.49	27.9	600	6.72	102.1	RECHARGE
11:30	128		27.3	6.74	0.13	17.48	119	700	7.58	101.2	sub-10
11:48	133		26.60	6.43	0.13	17.80	42.4	700	6.73	102.4	sub-10
	170										• TOTAL VOLUME REMOVED (GAL)

DEVELOPMENT METHOD: RECHARGE, AS SCREEN IS SO CLOSE TO WT, PUMPING

NOTE: DAT THEN RECHARGE WELL TO RECHARGE THEN SUBE,

REPORT



5/28/2020

GOLDER

WELL DEVELOPMENT FIELD RECORD

page 2

PROJECT NAME / NUMBER 20135424  
 WELL ID: 2  
 DEVELOPER BY J. HIGGINS/SPM  
 STARTED DEVL: 07-16 15:31  
 WELL BEFORE DEVL: 15.6 @ 15:15  
 WELL DEPTH BEFORE DEVL: 32.07  
 STANDING WATER COLUMN (FT):  
 SCREEN LENGTH: 10'

WELL ID: P2-65  
 WELL ID: E  
 DATE OF INSTALL: 4-8-20  
 COMPLETED DEVL: 09-12 19:11  
 WL AFTER DEVL: 26.9 @ 13:27  
 WELL DEPTH AFTER DEVL: 33.07  
 STANDING WELL VOLUME: 2.87  
 DRILLING WATER LOSS:

DATE/TIME	VOLUME REMOVED (gal)	PUMPING RATE (gpm)	SPM	WT (lb)	TO COR (inches)	TEMP		COR	H2O (inches)	DIP (inches)	PUMP FROM REMAINS (B-TT)
						FL	BTG				
04:17/11:58	132	0.33	31	6.79	0.13	17.55	17.5	cur	7.23	109.5	Reidling 6" @ 0
12:11	143		28.2	6.73	0.13	17.33	71.9	cur	7.52	109.2	5" @ 0
12:38	148		27.5	6.78	0.13	17.71	35.9	cur	7.00	109.7	2nd Pump → 5'
12:42	-	0.25	23.5	6.71	0.13	17.18	82.5	cur	6.99	105.0	Pump @ 5'
12:45	153	1.00	25.0	6.62	0.13	17.07	91	cur	5.25	109.7	Reidling 6"
12:00	158		25.1	6.61	0.13	17.77	85.9	cur	5.57	108.0	2nd Pump
13:15	163		24.9	6.64	0.13	17.20	46.9	cur	3.78	105.2	
13:30	168		24.4	6.67	0.13	18.42	19.8	cur	4.16	105.3	more → 4'
13:37	170		26.5	6.58	0.13	18.11	82.01	cur	2.52	91.9	Pump @ 1' → 2nd low-flow
/											
170		= TOTAL VOLUME REMOVED (gal)									

DEVELOPMENT METHOD: \_\_\_\_\_  
 NOTES: \_\_\_\_\_

*[Signature]*

5/28/2020

# PURGING AND SAMPLING FORM

20131484

Project #: 150205010	Project Name/Site Name: SCS Plant Scherer		Page: 1 of 1
Well ID #: P2-65	Date: 04-17-20	Water Level (ft): 18.0	Time (ML): 13:48
Physical Condition of Well: Good		Weather: Sunny, Wind 72°F	
Well Diameter (in): 2	Well Depth (ft): 33.07	Water Column (ft): 15.07	Well Volume (gal): 2.5
Start Purge: 13:50	End Purge: 14:10	Top of Pump (ft): -2.8	
Evacuation Method: Low-Flow		Volume Removed (L): 10 L	
Evacuation Equipment: RECLAIMER		Purging Personnel: JUNE WAGLESBACH	
SmartTroll serial #: 646770		Lamotte serial #: 2277-2612	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (R.B.TOC)	Pumping Rate
14:10	CLR	NONE	6.40	150.68	2.88	12.80	98.30	4.71	20.1	500 ml/min

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3M, purge water, water level ± 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: NO SAMPLE      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)
	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 8020/7470)
	500 mL plastic	-	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9015/9020)

Signature: [Signature]

NO SAMPLE, WELL DEVELOPMENT

[Signature] 5/28/2020





Product Name: Low-Flow System

Date: 2020-04-17 14:11:28

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 28 ft

Pump placement from TOC 28 ft

Well Information:

Well ID PZ-65  
Well diameter 2 in  
Well Total Depth 33.07 ft  
Screen Length 10 ft  
Depth to Water 18.0 ft

Pumping Information:

Final Pumping Rate 500 mL/min  
Total System Volume 0.6981221 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 25.2 in  
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:54:51	300.10	19.14	6.45	129.56	10.52	19.35	1.98	101.94
Last 5	13:59:51	600.02	18.73	6.41	130.99	8.94	19.64	2.99	100.83
Last 5	14:04:51	900.02	18.78	6.40	130.57	7.43	19.90	2.92	99.35
Last 5	14:09:51	1200.02	18.80	6.40	130.58	4.71	20.10	2.88	98.27
Last 5									
Variance 0			-0.40	-0.04	1.44			1.01	-1.12
Variance 1			0.04	-0.01	-0.42			-0.07	-1.48
Variance 2			0.02	-0.01	0.01			-0.04	-1.08

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

Form 10-1

PROJECT NAME / NUMBER: 2-179489  
 WELL ID NO: 2  
 WELL DEPTH (FT): 4232 - 852  
 WELL DEPTH (M): 58.7643 - 852  
 WELL DEPTH (M) (TOTAL): 31.91 - 852  
 STANDING WATER TO Casing PT: 10' (28.3 - 31.7)  
 Casing Length:

WELL NO: PZ-66  
 WELL OR ID: \_\_\_\_\_  
 DATE OF INSTALL: \_\_\_\_\_  
 COMPLETED DATE: \_\_\_\_\_  
 W/ AFTER DEPTH: \_\_\_\_\_  
 WELL DEPTH AFTER DEPTH: \_\_\_\_\_  
 STANDING WELL TO CASE: \_\_\_\_\_  
 Casing Length:

DATE/TIME	WELL DEPTH (FT)	FLOWING RATE (GPM)	FLOWING PRESSURE (PSI)	FIELD PARAMETERS								REMARKS
				STRT	END	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	
4/6/20	0	0	3149	6.81	102.8	18.24	7100	8.00	1.26	749	104 @ - 38	
4/6/20	10.5	0.7	557	7.24	182.0	18.24	440	0.50	9.25	743		
9/10	17.5	0.7	740	7.74	174.0	18.16	87.1	0.40	8.24	735	PXY, PAXE	
9/20	—	—	5241									
9/30	—	—	5221									
9/20	—	—	5025									
09/20	—	—	4846									
10/20	15.1	—	4781	7.61	193.1	19.09	60.8	0.40	8.21	724	RELINER	
10/15	15.5	0.4	4910	7.58	180.0	18.52	75.1	0.40	8.87	727	RELINER, PAXE PXY 0.24m	
PULLING PAXE WITH ARTMAN w/ BALLERS												
1/20	40	—	3531	7.21	100.2	20.25	66.1	0.40	6.96	621		
1/20	4	—	712	18.28	44.6	44.6	44.6	0.40	7.42	702		
1/21	47.8	—	716	18.15	25	71.5	44.6	0.40	1.89	189	PXY @ 21	
1/21	115	—										

10/22 3.75  
 10/23 3.80  
 10/24 3.85

DEVELOPMENT METHOD: \_\_\_\_\_  
 DATE: 022 8/20 - 2/20/20

 5/28/2020

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER: 20139484  
 WELL ID: 2'  
 DEVELOPER BY: Mr. Boatman  
 START DATE: Yellow 120  
 WELL BEFORE DEVL: 35.4 / 1500  
 WELL DEPTH BEFORE DEVL: 61.4' 8.10c  
 STANDING WATER COLUMN (FT): 28'  
 SCREEN LENGTH: 15'

WELL ID: PZ-668  
 WELL ID BY: L  
 DATE OF INSTALL: 7/1/2020  
 COMPLETED DEVL: 7/1/15 25  
 W. AFTER DEVL: 57.0 / 1753  
 WELL DEPTH AFTER DEVL: 61.4' 8.10c  
 STANDING WELL VOLUME: 4.6  
 DRILLING IN FEET LINE: \_\_\_\_\_

DATE/TIME	GAL/LIT	FLOW RATE (GPM)	STW (FT)	WELL PARAMETERS								REMARKS		
				SP (PSI)	SP (BAR)	TEMP (°F)	TEMP (°C)	PH	SD (PPM)	ORP (mV)	ORP (mV)			
1510			33.4											
1520	0.35	60.2	32.8	1.1	139.0	16.2	79.0	80.7	5.13	63.2				
1530	2.0		48.7	8.47	145.6	21.9	11.2	Clear	4.52	70.1				
1540	4.0		79.3	19.30	242.0	16.67	7.89	Clear	5.31	78.7				
1551			48.8											
1600	6.0		51.6	8.77	227.7	20.47	13.2	Clear	5.47	68.3				
1610	8.0		54.1	8.34	199.2	14.85	6.05	Clear	5.67	73.7				
1615	10.0		58.6	7.71	219.5	11.46	64.3	Cloudy	6.87	74.5				
1625	11.5		58.8	7.49	199.1	21.79	27.6	Cloudy	6.75	87.2				
		<u>11.5</u>	TOTAL VOLUME REMOVED (GAL)											

Surge, Air compressor freeze up @ 1547 TUB  
 Surge, 100ml/min  
 Shut Low-Flow Setup

DEVELOPMENT METHOD: 166" Reclaimer  
 NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
  
 5/28/2020  
 Boulder Associates

Product Name: Low-Flow System

Date: 2020-04-14 17:55:47

Project Information:

Operator Name MLBoatman  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID PZ-66  
Well diameter 2 in  
Well Total Depth 60 ft  
Screen Length 15 ft  
Depth to Water 51 ft

Pumping Information:

Final Pumping Rate 400 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	17:33:11	1199.94	18.28	7.12	180.60	3.72	52.50	8.15	83.35
Last 5	17:38:11	1499.94	18.46	7.02	178.83	2.62	52.80	7.65	84.59
Last 5	17:43:11	1799.94	17.98	7.03	180.23	6.12	53.90	8.84	83.85
Last 5	17:48:11	2099.94	17.87	6.96	179.50	6.89	56.00	9.00	86.01
Last 5	17:53:11	2399.94	17.76	6.99	180.49	3.55	57.80	8.65	84.05
Variance 0			-0.49	0.00	1.41			1.20	-0.74
Variance 1			-0.10	-0.06	-0.74			0.16	2.16
Variance 2			-0.11	0.03	1.00			-0.36	-1.96

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

Page 1 of 1

PROJECT NAME / NUMBER: 20139484  
 WELL ID: 22  
 DEVELOPER BY: Mr. Seaman  
 STARTED DATE: 4/1/2020  
 WELL BEFORE DATE: 24.4/11/2019  
 WELL DEPTH BEFORE DATE: 38.2'  
 STANDING WATER COLUMN (FT): 18.7'  
 SCREEN LENGTH: 10'

WELL ID: P2-673  
 WELL ID #2: 22  
 DATE OF INSTALL: 4/1/2020  
 COMPLETED DATE: 4/1/2020  
 WELL AFTER DATE: 27.0/4/1/2020  
 WELL DEPTH AFTER DATE: 42.8' B Tot  
 STANDING WELL COLUMN: 3.03'  
 DRILLING WATER LOSS: 0'

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	CYCLE TIME (MIN)	WELL PARAMETERS							REMARKS	
				PH (pH)	SP. COND (µmhos/cm)	TEMP (°F)	TURBID (NTU)	ODOR	SMELL	CO2 (ppm)		
10:10			24.1									
10:20	3		21.3	7.41	264.5	19.13	7.61	Clear	9.11	29.0	6000 gpm	odor - sulfur/surge
10:35	3		21.4	7.46	290.3	19.04	9.03	Clear	9.15	28.6	8000 gpm	Surge - pump lowered to 1' from BTM
10:50	3		32.9	7.41	231.6	19.09	19.7	Brown	8.69	27.3	20000 gpm	
11:00	3		33.8	7.17	207.4	19.30	36.5	cloudy	3.83	-117.6		
11:15	3		31.5	6.58	209.6	19.61	35.0	Cloudy	8.16	36.4		
11:30	Pumped "DRY" water level to top of pump											
11:45	Recharged to 21' B Tot											
12:00	3		31.5	6.88	200.0	20.74	15.8	Clear	6.78	100.6		Set up low-flow odor never left
			18	TOTAL VOLUME REMOVED (GAL)								

DEVELOPMENT METHOD: 1.66" Reclaimer  
 NOTES: \_\_\_\_\_

5/28/2020

Product Name: Low-Flow System

Date: 2020-04-14 12:50:20

Project Information:

Operator Name MLBoatman  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646770  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length ft

Pump placement from TOC ft

Well Information:

Well ID PZ-67  
Well diameter 2 in  
Well Total Depth 42.8 ft  
Screen Length 10 ft  
Depth to Water 25.5 ft

Pumping Information:

Final Pumping Rate 400 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 14 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:33:32	300.09	19.89	6.47	203.39	1.75	26.70	3.92	-200.12
Last 5	12:38:32	600.02	19.88	6.46	204.15	1.49	27.00	5.00	-174.75
Last 5	12:43:32	899.95	19.87	6.47	204.27	1.23	27.10	5.00	-170.04
Last 5	12:48:32	1199.95	19.87	6.45	202.61	1.66	27.10	4.92	-170.61
Last 5									
Variance 0			-0.01	-0.01	0.77			1.08	25.37
Variance 1			-0.01	0.01	0.11			-0.01	4.71
Variance 2			0.01	-0.02	-1.66			-0.08	-0.57

Notes

Grab Samples

WELL DEVELOPMENT FIELD RECORD

PROJECT NAME / NUMBER: 20139484

WELL ID: P2-68

WELL DIA: 2"

WELL DIA BY: 2"

DEVELOPED BY: 826 Gopher

DATE OF WORK: 4/17/2019

STARTED DEVL: 11/1/19

COMPLETED DEVL: 11/1/19

WL BEFORE DEVL: 6' 4/19 0930

WL AFTER DEVL: 16.0' 4/19 1731

B.T.O.C. 23.5' B.T.O.C.

WELL DEPTH AFTER DEVL: 23.5' B.T.O.C.

STANDARD WATER COLUMN (FT): 17.5

STANDARD WELL YIELD: 2.82

SCREEN LENGTH: \_\_\_\_\_

DEVELOP WATER LOSS: \_\_\_\_\_

DATE/TIME	WELL LOG REMOVED (ft)	FLOW RATE (gpm)	STP (ft)	WELL PARAMETERS								REMARKS	
				WT (lb)	Dr. Core (lb)	TEMP (°F)	Turbidity (NTU)	Color	TSS (mg/L)	SD (mg/L)			
1020	-	-	-	-	-	-	-	-	-	-	-	-	2000 ml/min
1025	3	19.5	7.44	215.7	16.15	148.7	Brown	3.66	87.4				
1035	completely Recharged.												
1100	Normal flow												
1115	3	16.5	7.17	196.8	12.24	278	Brown	8.70	69.4				-RAD + REC + ADGUE
1155													
1205	3	15.5	6.88	191.4	12.92	74	Brown	3.73	47.0				Recharge - Surge before pump is
1245	started pump												
1300	3	19.5	6.56	190.6	11.08	106.4	Brown	6.29	38.2				Flow Rate @ 600 ml/min
1316	3	19.0	6.50	183.2	18.09	6.39	Clear	4.27	38.6				
1330	3	19.0	6.82	187.1	12.25	4.46	Clear	4.48	38.7				
1345	3	19.0	6.70	178.2	17.89	2.52	Clear	4.07	38.5				
1400	3	19.0	6.67	125.2	18.07	7.91	Clear	4.30	38.3				move pump towards 1/2 of the screen after this reading
1420	start pump												
1430	3	16.7	6.20	168.9	19.21	30.14	Brown	2.99	39.7				Surge before starting to pump
1440	3	16.8	6.38	166.2	19.19	36.0	Cloudy	3.67	38.8				
1450	3	16.8	6.45	164.3	18.70	7.79	Clear	3.51	40.0				
1515	3	16.5	6.41	163.9	18.61	3.87	Clear	3.59	42.6				Surge move pump 1' closer
1516	Start pump												
1535	3	13.0	6.58	162.5	19.71	10.11	Cloudy	7.88	43.1				ml @ top of pump
1555	3	13.1	6.59	159.7	19.38	33.8	Clear	7.53	44.8				dropped pump 2' from bottom
1624	Start low flow												
* 1640	Start low system b/c generate ran out of fuel												
300		18.0	6.20	466.0	6.38	58.1	Clear	2.77	50.60				
600		18.0	6.18	160.8	16.38	6.29	Clear	2.42	50.30				> All in but DO
900		18.8	6.17	160.0	16.31	2.71	Clear	2.78	50.50				
Slide and hit cancel button, Restart test @ 1702													
300		17.6	6.16	159.6	16.39	26.8	Clear	2.58	50.80				
600		18.0	6.14	158.0	16.49	15.0	Clear	1.89	51.60				
900		18.4	6.14	158.7	16.39	2.70	Clear	2.41	51.60				
		18.7	6.14	158.7	16.36	1.50	Clear	2.54	51.40				

DEVELOPMENT METHOD: 1.66" Reclaimer.  
 NOTES: 18.8/6.14/158.3/6.58/16.23/clear/2.49/51.80  
Finish 1731  
42 total gallons removed

*[Handwritten Signature]*

Product Name: Low-Flow System

Date: 2020-04-17 17:29:58

Project Information:

Operator Name MLBoatman  
Company Name Golder  
Project Name 20139484  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 512733  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Reclaimer  
Tubing Type polyethylene  
Tubing Diameter 0.375 in  
Tubing Length 25 ft

Pump placement from TOC 19.1 ft

Well Information:

Well ID PZ-68  
Well diameter 2 in  
Well Total Depth 23.3 ft  
Screen Length 10 ft  
Depth to Water 14.0 ft

Pumping Information:

Final Pumping Rate 640 mL/min  
Total System Volume 0.6329661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	17:08:26	300.03	16.39	6.16	159.57	26.80	17.60	2.58	50.76
Last 5	17:13:26	600.02	16.47	6.14	158.04	15.00	18.00	1.89	51.58
Last 5	17:18:26	899.95	16.34	6.14	158.69	2.70	18.40	2.41	51.57
Last 5	17:23:26	1199.95	16.36	6.14	158.67	--	--	2.54	51.44
Last 5	17:28:26	1499.95	16.38	6.14	158.32	--	--	2.49	51.85
Variance 0			-0.13	-0.00	0.66			0.52	-0.01
Variance 1			0.02	0.00	-0.02			0.12	-0.13
Variance 2			0.03	-0.00	-0.35			-0.05	0.41

Notes

Grab Samples



## Appendix C – Certified Well Survey

Plant Scherer

1st data set: North Property Wells

NETWORK WELL ID	PVC CASING LATITUDE	PVC CASING LONGITUDE	CONTROL NAIL NORTHING	CONTROL NAIL EASTING	CONTROL NAIL ELEVATION	PVC CASING NORTHING	PVC CASING EASTING	ELEVATION TOP OF PVC CASING	GROUND ELEVATION	COMMENTS
PZ-45D	33.09322971 °	-83.82816330 °	1125296.00	2400249.51	509.94	1125296.24	2400250.55	512.33	509.7	
PZ-46D	33.08832034 °	-83.82598568 °	1123511.13	2400923.42	447.37	1123512.22	2400923.25	450.28	447.1	
PZ-47D	33.09684023 °	-83.81470823 °	1126623.84	2404365.89	406.91	1126623.42	2404366.80	410.01	406.8	
PZ-48S	33.09240559 °	-83.81011172 °	1125015.59	2405780.34	441.45	1125014.71	2405779.92	444.33	441.3	
PZ-49D	33.08800314 °	-83.79434166 °	1123430.38	2410614.46	365.13	1123429.73	2410615.29	367.41	364.9	
PZ-49S	33.08801621 °	-83.79437196 °	1123434.99	2410605.11	365.29	1123434.46	2410605.99	367.89	365.2	
PZ-51D	33.07658668 °	-83.82919170 °	1119239.94	2399954.09	543.47	1119239.99	2399955.07	546.04	543.2	
PZ-52	33.08640137 °	-83.81717935 °	1122822.91	2403621.89	519.68	1122822.91	2403622.69	521.84	519.4	
PZ-53	33.08394269 °	-83.81330140 °	1121931.72	2404814.17	513.81	1121932.34	2404813.43	516.64	513.6	
PZ-54	33.08276482 °	-83.80761959 °	1121509.00	2406555.91	490.27	1121509.71	2406555.15	492.96	490.2	
PZ-55	33.08389990 °	-83.79920035 °	1121930.63	2409132.43	444.25	1121931.60	2409132.43	447.21	444.2	
PZ-56	33.08827939 °	-83.79943044 °	1123523.72	2409037.56	431.10	1123524.68	2409037.21	433.68	430.8	
PZ-57	33.08796818 °	-83.80496443 °	1123404.88	2407362.68	436.55	1123405.64	2407361.88	439.51	436.4	
PZ-58	33.08769650 °	-83.81200107 °	1123298.42	2405206.74	489.35	1123299.43	2405207.09	492.21	489.3	
PZ-59D	33.09297923 °	-83.80394129 °	1125230.79	2407669.66	383.16	1125229.89	2407668.93	385.86	382.9	
PZ-59S	33.09293469 °	-83.80397571 °	1125214.48	2407659.05	383.13	1125213.65	2407658.45	385.93	382.8	
PZ-60D	33.09072228 °	-83.80207655 °	1124410.58	2408242.14	386.53	1124410.72	2408242.87	389.34	386.4	
PZ-60S	33.09069400 °	-83.80207431 °	1124400.33	2408242.82	386.66	1124400.44	2408243.59	389.88	386.4	
PZ-61	33.08557017 °	-83.80115566 °	1122536.81	2408532.14	436.84	1122537.21	2408531.43	439.27	436.8	
PZ-62	33.08513385 °	-83.80885081 °	1122370.22	2406176.10	498.45	1122370.34	2406175.11	501.32	498.3	
PZ-63	33.08950995 °	-83.81573718 °	1123956.15	2404059.66	499.12	1123955.38	2404060.61	501.54	498.9	
PZ-64	33.08885322 °	-83.80808779 °	1123723.25	2406405.08	476.09	1123724.36	2406404.18	479.52	476.0	
PZ-65	33.08392854 °	-83.80376913 °	1121936.26	2407732.50	429.77	1121937.16	2407733.04	432.42	429.6	
PZ-66D	33.09135724 °	-83.79950884 °	1124644.65	2409027.58	424.64	1124644.48	2409028.45	427.60	424.4	
PZ-66	33.09141030 °	-83.79922285 °	1124664.50	2409114.81	418.68	1124664.10	2409115.98	421.24	418.4	
PZ-67D	33.09444381 °	-83.80200723 °	1125764.90	2408260.40	424.86	1125764.81	2408259.40	428.48	424.7	
PZ-67	33.09449189 °	-83.80204133 °	1125782.52	2408250.00	423.37	1125782.26	2408248.89	425.94	423.2	
PZ-68	33.09267242 °	-83.80553278 °	1125117.30	2407182.87	392.34	1125116.59	2407181.92	395.55	392.1	



I certify that top of casing and PK nail elevations reflect a relative vertical accuracy of 0.01 feet referencing NAVD88 and were collected using a Topcon DL-502 digital level with closures meeting First Order, Class I level classification. Horizontal positions of casings and PK nails reflect accuracies of 0.50 feet or better and were collected using a JAVAD Triumph-LS dual-frequency RTK global positioning system receiver with eGPS VRS corrections referencing the Georgia State Plane, west zone, NAD83(2011) coordinate system in US survey feet.  
 Issued 6/29/20.

Reissued 8/10/20  
 to list Network  
 Well ID



**GOLDER**

**APPENDIX B**

# CERTIFIED WELL SURVEY REPORT

Plant Scherer

1st data set: North Property Wells

Reissued 12/7/20

NETWORK WELL ID	PVC CASING LATITUDE	PVC CASING LONGITUDE	CONTROL NAIL NORTHING	CONTROL NAIL EASTING	CONTROL NAIL ELEVATION	PVC CASING NORTHING	PVC CASING EASTING	ELEVATION TOP OF PVC	GROUND ELEVATION	COMMENTS
PZ-45D	33.09322971 °	-83.82816330 °	1125296.00	2400249.51	509.94	1125296.24	2400250.55	512.33	509.7	
PZ-46D	33.08832034 °	-83.82598568 °	1123511.13	2400923.42	447.37	1123512.22	2400923.25	450.28	447.1	
PZ-47D	33.09684023 °	-83.81470823 °	1126623.84	2404365.89	406.91	1126623.42	2404366.80	410.01	406.8	
PZ-48S	33.09240559 °	-83.81011172 °	1125015.59	2405780.34	441.45	1125014.71	2405779.92	444.33	441.3	
PZ-49D	33.08800314 °	-83.79434166 °	1123430.38	2410614.46	365.13	1123429.73	2410615.29	367.41	364.9	
PZ-49S	33.08801621 °	-83.79437196 °	1123434.99	2410605.11	365.29	1123434.46	2410605.99	367.89	365.2	
PZ-51D	33.07658668 °	-83.82919170 °	1119239.94	2399954.09	543.47	1119239.99	2399955.07	546.04	543.2	
PZ-52	33.08640137 °	-83.81717935 °	1122822.91	2403621.89	519.68	1122822.91	2403622.69	521.84	519.4	
PZ-53	33.08394269 °	-83.81330140 °	1121931.72	2404814.17	513.81	1121932.34	2404813.43	516.64	513.6	
PZ-54	33.08276482 °	-83.80761959 °	1121509.00	2406555.91	490.27	1121509.71	2406555.15	492.96	490.2	
PZ-55	33.08389990 °	-83.79920035 °	1121930.63	2409132.43	444.25	1121931.60	2409132.43	447.21	444.2	
PZ-56	33.08827939 °	-83.79943044 °	1123523.72	2409037.56	431.10	1123524.68	2409037.21	433.68	430.8	
PZ-57	33.08796818 °	-83.80496443 °	1123404.88	2407362.68	436.55	1123405.64	2407361.88	439.51	436.4	
PZ-58	33.08769650 °	-83.81200107 °	1123298.42	2405206.74	489.35	1123299.43	2405207.09	492.21	489.3	
PZ-59D	33.09297923 °	-83.80394129 °	1125230.79	2407669.66	383.16	1125229.89	2407668.93	385.86	382.9	
PZ-59S	33.09293469 °	-83.80397571 °	1125214.48	2407659.05	383.13	1125213.65	2407658.45	385.93	382.8	
PZ-60D	33.09072228 °	-83.80207655 °	1124410.58	2408242.14	386.53	1124410.72	2408242.87	389.34	386.4	
PZ-60S	33.09069400 °	-83.80207431 °	1124400.33	2408242.82	386.66	1124400.44	2408243.59	389.88	386.4	
PZ-61	33.08557017 °	-83.80115566 °	1122536.81	2408532.14	436.84	1122537.21	2408531.43	439.27	436.8	
PZ-62	33.08513385 °	-83.80885081 °	1122370.22	2406176.10	498.45	1122370.34	2406175.11	501.32	498.3	
PZ-63	33.08950995 °	-83.81573718 °	1123956.15	2404059.66	499.12	1123955.38	2404060.61	501.54	498.9	
PZ-64	33.08885322 °	-83.80808779 °	1123723.25	2406405.08	476.09	1123724.36	2406404.18	479.52	476.0	
PZ-65	33.08392854 °	-83.80376913 °	1121936.26	2407732.50	429.77	1121937.16	2407733.04	432.42	429.6	
PZ-66D	33.09135724 °	-83.79950884 °	1124644.65	2409027.58	424.64	1124644.48	2409028.45	427.60	424.4	
PZ-66	33.09141030 °	-83.79922285 °	1124664.50	2409114.81	418.68	1124664.10	2409115.98	421.24	418.4	
PZ-67D	33.09444381 °	-83.80200723 °	1125764.90	2408260.40	424.86	1125764.81	2408259.40	428.48	424.7	
PZ-67	33.09449189 °	-83.80204133 °	1125782.52	2408250.00	423.37	1125782.26	2408248.89	425.94	423.2	
PZ-68	33.09267242 °	-83.80553278 °	1125117.30	2407182.87	392.34	1125116.59	2407181.92	395.55	392.1	

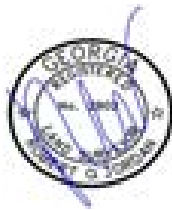


I certify that top of casing and PK nail elevations reflect a relative vertical accuracy of 0.01 feet referencing NAVD88 and were collected using a Topcon DL-502 digital level with closures meeting First Order, Class I level classification. Horizontal positions of casings and PK nails reflect accuracies of 0.50 feet or better and were collected using a JAVAD Triumph-LS dual-frequency RTK global positioning system receiver with eGPS VRS corrections referencing the Georgia State Plane, west zone, NAD83(2011) coordinate system in US survey feet.  
 Issued 6/29/20.

**Plant Scherer**

**2nd data set: AP1 wells/piezometers**

NETWORK WELL ID	PVC CASING LATITUDE	PVC CASING LONGITUDE	CONTROL NAIL NORTHING	CONTROL NAIL EASTING	CONTROL NAIL ELEVATION	PVC CASING NORTHING	PVC CASING EASTING	TOP OF PVC CASING ELEV.	GROUND ELEVATION	COMMENTS
PZ-10S	33.08508549 °	-83.82323706 °	1122338.53	2401768.08	514.78	1122338.03	2401768.92	517.53	514.4	
PZ-11S	33.08736100 °	-83.81996800 °	1123170.19	2402767.80	526.19	1123169.22	2402767.44	529.31	526.0	
PZ-12S	33.08602210 °	-83.81719466 °	1122685.28	2403619.28	514.64	1122684.90	2403618.46	517.69	514.5	
PZ-13S	33.08401596 °	-83.81521422 °	1121956.37	2404228.09	517.68	1121957.03	2404227.47	520.51	517.5	
PZ-14i	33.08376126 °	-83.81327276 °	1121865.36	2404821.96	510.03	1121866.36	2404822.43	512.89	509.7	
PZ-14S	33.08372400 °	-83.81327900 °	1121851.80	2404820.15	509.03	1121852.80	2404820.56	512.13	508.7	
PZ-15S	33.08271165 °	-83.81087348 °	1121485.86	2405558.82	497.59	1121486.96	2405558.59	500.60	497.4	
PZ-17i	33.07913315 °	-83.80583149 °	1120190.44	2407106.31	480.20	1120190.27	2407107.37	483.03	479.9	
PZ-19i	33.07472925 °	-83.80537876 °	1118589.46	2407251.40	414.74	1118588.47	2407251.56	417.76	414.5	
PZ-19S	33.07472596 °	-83.80541146 °	1118588.13	2407241.65	414.79	1118587.24	2407241.54	417.80	414.5	
PZ-20i	33.07398605 °	-83.80531062 °	1118318.72	2407272.52	414.46	1118318.15	2407273.36	417.41	414.3	
PZ-21S	33.07212246 °	-83.80618934 °	1117639.29	2407007.47	470.85	1117639.19	2407006.52	473.74	470.6	
PZ-25i	33.08368507 °	-83.81408728 °	1121836.89	2404573.11	526.02	1121837.80	2404573.04	528.39	525.8	
PZ-25S	33.08371344 °	-83.81410520 °	1121847.35	2404567.67	525.78	1121848.11	2404567.52	528.24	525.5	
PZ-26S	33.08328634 °	-83.81030096 °	1121695.69	2405732.96	489.17	1121696.65	2405733.23	491.65	489.1	
PZ-27D	33.08290514 °	-83.80935590 °	1121558.20	2406023.06	472.66	1121558.94	2406023.17	475.43	472.4	
PZ-27S	33.08292266 °	-83.80933923 °	1121564.39	2406028.18	473.18	1121565.33	2406028.25	475.80	473.1	
PZ-28s	33.08244868 °	-83.80821251 °	1121393.51	2406374.88	481.59	1121394.06	2406373.94	484.18	481.4	
PZ-29S	33.08210318 °	-83.80741616 °	1121268.18	2406617.83	488.70	1121269.19	2406618.29	491.31	488.5	
PZ-2i	33.06640333 °	-83.81932122 °	1115545.82	2402991.10	515.06	1115544.85	2402990.76	517.56	514.8	
PZ-30	33.08156107 °	-83.80591422 °	1121072.64	2407079.10	475.71	1121073.53	2407078.99	478.31	475.6	
PZ-31i	33.08191626 °	-83.80471544 °	1121202.96	2407445.90	464.16	1121204.03	2407445.73	466.89	464.0	
PZ-32D	33.08159927 °	-83.80382334 °	1121089.46	2407718.47	462.56	1121089.64	2407719.37	465.42	462.4	
PZ-32S	33.08159833 °	-83.80389169 °	1121088.90	2407697.44	462.52	1121089.22	2407698.44	465.06	462.3	
PZ-33	33.08201411 °	-83.79943146 °	1121245.41	2409063.30	466.55	1121245.25	2409064.05	469.38	466.4	
PZ-34	33.08224927 °	-83.79869810 °	1121330.71	2409288.05	441.08	1121331.59	2409288.37	443.67	440.8	
PZ-35S	33.08301374 °	-83.80924066 °	1121598.17	2406059.15	474.72	1121598.57	2406058.33	474.40	474.6	Flush mount
PZ-36i	33.07973840 °	-83.80534295 °	1120410.91	2407285.90	478.96	1120410.99	2407256.25	481.52	478.9	
PZ-36S	33.07971111 °	-83.80536989 °	1120390.25	2407210.09	479.50	1120401.04	2407248.04	482.35	479.4	



I certify that top of casing and PK nail elevations reflect a relative vertical accuracy of 0.01 feet referencing NAVD88 and were collected using a Topcon DL-502 digital level with closures meeting First Order, Class I level classification. Horizontal positions of casings and PK nails reflect accuracies of 0.50 feet or better and were collected using a JAVAD Triumph-LS dual-frequency RTK global positioning system receiver with eGPS VRS corrections referencing the Georgia State Plane, west zone, NAD83(2011) coordinate system in US survey feet.  
 Issued 7/17/20.

Plant Scherer

2nd data set: AP1 wells/piezometers

Updated 12/7/20

NETWORK WELL ID	PVC CASING LATITUDE	PVC CASING LONGITUDE	CONTROL NAIL NORTHING	CONTROL NAIL EASTING	CONTROL NAIL ELEVATION	PVC CASING NORTHING	PVC CASING EASTING	TOP OF PVC CASING ELEV.	GROUND ELEVATION	COMMENTS
PZ-37	33.08183679 °	-83.80153755 °	1121177.58	2408419.44	479.68	1121178.48	2408419.19	482.18	479.5	
PZ-38s	33.08267369 °	-83.80828005 °	1121475.60	2406353.86	482.38	1121475.86	2406352.98	482.24	482.2	Flush mount
PZ-39S	33.07909718 °	-83.80464616 °	1120177.69	2407469.94	471.99	1120178.43	2407470.49	474.58	471.8	
PZ-3S	33.06789221 °	-83.82080703 °	1116085.44	2402534.69	514.57	1116085.04	2402533.80	517.29	514.4	
PZ-40i	33.07025744 °	-83.80643134 °	1116959.65	2406934.18	510.19	1116960.39	2406934.72	512.55	510.1	
PZ-41S	33.06981255 °	-83.80581206 °	1116798.94	2407126.11	488.66	1116799.18	2407124.98	491.50	488.6	
PZ-42i	33.06767107 °	-83.81179732 °	1116014.70	2405294.31	500.65	1116013.79	2405294.12	503.18	500.5	
PZ-43S	33.06652661 °	-83.81110650 °	1115598.33	2405508.23	501.34	1115598.12	2405507.16	504.03	501.2	
PZ-44i	33.08280119 °	-83.81488357 °	1121515.14	2404331.45	507.91	1121515.40	2404330.23	510.36	507.9	
PZ-5i	33.07174413 °	-83.82313290 °	1117483.92	2401817.76	520.73	1117484.15	2401816.71	523.26	520.6	ID updated 12/7/20
PZ-6S	33.07291903 °	-83.82273710 °	1117910.82	2401936.63	529.22	1117912.01	2401936.55	531.54	529.0	
PZ-9i	33.08021416 °	-83.82621441 °	1120562.95	2400862.02	523.61	1120562.72	2400862.76	526.57	523.3	
SGWA-1	33.07656824 °	-83.82937216 °	1119232.67	2399899.20	544.27	1119233.10	2399899.81	546.83	544.1	
SGWA-2	33.07658071 °	-83.82934477 °	1119237.34	2399907.22	544.20	1119237.67	2399908.19	546.94	544.0	
SGWA-24	33.07350677 °	-83.82662952 °	1118123.12	2400743.74	489.47	1118121.96	2400743.52	492.38	489.3	
SGWA-25	33.08019376 °	-83.82623303 °	1120556.28	2400856.87	523.45	1120555.28	2400857.08	526.49	523.2	
SGWA-3	33.07929746 °	-83.83133096 °	1120224.89	2399295.73	543.03	1120224.15	2399296.64	545.83	542.9	
SGWA-4	33.08272488 °	-83.82534974 °	1121478.07	2401124.27	544.96	1121477.05	2401124.64	547.66	544.8	
SGWA-5	33.07344366 °	-83.83745909 °	1118087.26	2397426.71	505.93	1118088.42	2397426.26	508.48	505.7	
SGWC-10	33.08384947 °	-83.81580437 °	1121896.53	2404047.19	506.80	1121895.85	2404046.92	509.41	506.6	
SGWC-11	33.08287457 °	-83.81487709 °	1121542.20	2404332.76	508.77	1121542.11	2404332.12	511.47	508.6	
SGWC-12	33.08296352 °	-83.81266381 °	1121576.11	2405009.73	497.80	1121576.75	2405009.92	500.53	497.7	
SGWC-13	33.08212677 °	-83.81021432 °	1121274.24	2405760.67	480.17	1121274.85	2405761.20	482.71	479.9	
SGWC-14	33.08127293 °	-83.80836108 °	1120965.54	2406329.11	473.52	1120966.13	2406329.89	476.72	473.3	
SGWC-15	33.07913585 °	-83.80587541 °	1120191.24	2407092.94	479.76	1120191.20	2407093.92	482.75	479.7	
SGWC-16	33.07646981 °	-83.80568398 °	1119221.32	2407154.80	457.18	1119221.42	2407155.89	460.31	457.0	
SGWC-17	33.07396034 °	-83.80533006 °	1118309.31	2407266.47	415.13	1118308.77	2407267.44	418.00	414.9	
SGWC-18	33.07022272 °	-83.80644257 °	1116946.85	2406930.82	510.41	1116947.75	2406931.32	513.29	510.3	
SGWC-19	33.06769326 °	-83.80917619 °	1116023.96	2406096.87	476.13	1116024.59	2406097.05	478.94	475.8	
SGWC-20	33.06769000 °	-83.81175300 °	1116021.41	2405308.01	501.69	1116020.73	2405307.67	504.60	501.5	



I certify that top of casing and PK nail elevations reflect a relative vertical accuracy of 0.01 feet referencing NAVD88 and were collected using a Topcon DL-502 digital level with closures meeting First Order, Class I level classification. Horizontal positions of casings and PK nails reflect accuracies of 0.50 feet or better and were collected using a JAVAD Triumph-LS dual-frequency RTK global positioning system receiver with eGPS VRS corrections referencing the Georgia State Plane, west zone, NAD83(2011) coordinate system in US survey feet.  
 Issued 7/17/20.

# Plant Scherer

## 2nd data set: AP1 wells/piezometers

Updated 12/7/20

NETWORK WELL ID	PVC CASING LATITUDE	PVC CASING LONGITUDE	CONTROL NAIL NORTHING	CONTROL NAIL EASTING	CONTROL NAIL ELEVATION	PVC CASING NORTHING	PVC CASING EASTING	TOP OF PVC CASING ELEV.	GROUND ELEVATION	COMMENTS
SGWC-21	33.06602134 °	-83.81538416 °	1115410.87	2404197.33	484.92	1115409.88	2404197.33	487.67	484.7	
SGWC-22	33.06639012 °	-83.81928520 °	1115540.82	2403002.51	515.51	1115540.08	2403001.81	518.02	515.4	
SGWC-23	33.06956902 °	-83.82211514 °	1116694.67	2402131.78	520.17	1116693.80	2402131.07	523.10	520.0	
SGWC-6	33.08461401 °	-83.82254980 °	1122168.22	2401979.68	507.87	1122167.18	2401979.98	510.49	507.7	
SGWC-7	33.08598968 °	-83.82163099 °	1122669.73	2402259.63	503.65	1122668.61	2402259.75	506.40	503.5	
SGWC-8	33.08652561 °	-83.81927889 °	1122866.63	2402979.75	511.68	1122865.98	2402979.50	514.28	511.5	
SGWC-9	33.08588545 °	-83.81772829 °	1122634.98	2403455.80	507.88	1122634.64	2403455.19	510.62	507.6	
LPZ-1	33.07044703 °	-83.83392205 °	1117001.26	2398512.52	550.47	1117001.58	2398513.19	553.29	550.0	These wells moved here from 3rd data set, LF Wells 12/7/20
LPZ-2	33.07861662 °	-83.83555064 °	1119973.02	2398005.15	511.42	1119972.34	2398004.93	514.52	511.1	
LPZ-3	33.07287074 °	-83.83344344 °	1117884.36	2398656.49	512.55	1117883.86	2398657.00	515.45	512.2	
LPZ-4	33.06760372 °	-83.83859982 °	1115963.25	2397083.50	458.31	1115962.59	2397083.47	461.24	458.1	
LPZ-5	33.06583940 °	-83.83007014 °	1115329.50	2399698.90	521.81	1115328.95	2399698.53	524.51	521.5	

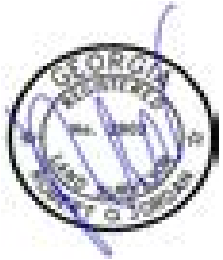


I certify that top of casing and PK nail elevations reflect a relative vertical accuracy of 0.01 feet referencing NAVD88 and were collected using a Topcon DL-502 digital level with closures meeting First Order, Class I level classification. Horizontal positions of casings and PK nails reflect accuracies of 0.50 feet or better and were collected using a JAVAD Triumph-LS dual-frequency RTK global positioning system receiver with eGPS VRS corrections referencing the Georgia State Plane, west zone, NAD83(2011) coordinate system in US survey feet.  
 Issued 7/17/20.



reissued 12-7-20

OBSERVED GAUGE ID	GAUGE LATITUDE	GAUGE LONGITUDE	GAUGE NORTHING	GAUGE EASTING	TOP OF GAUGE POST ELEVATION	COMMENTS
SG-1	33.08806386°	-83.79514726°	1123450.95	2410368.48	364.87	
SG-2	33.08998844°	-83.80211031°	1124143.69	2408233.46	373.05	
SG-3	33.09298876°	-83.80448056°	1125232.79	2407503.77	383.01	



I certify that the top of stream gauge post elevations reflect a relative vertical accuracy of 0.01 feet referencing NAVD88. Horizontal positions of stream gauges reflect accuracies of 0.50 feet or better. Coordinates reference Georgia State Plane, west zone, NAD83(2011) coordinate system in US survey feet. Issued 7/31/20.

**APPENDIX C**

**ANALYTICAL RESULTS, FIELD DATA FORMS,  
WELL INSPECTION FORMS & DATA VALIDATION  
SUMMARIES**

**APPENDIX C**

**ANALYTICAL RESULTS  
FEBRUARY 2020**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-102430-1  
Client Project/Site: GPC Plant Scherer AP-1  
Sampling Event: ASH POND (2)

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
3/31/2020 8:21:29 AM

Shali Brown, Project Manager II  
(615)301-5031  
[shali.brown@testamericainc.com](mailto:shali.brown@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Job ID: 180-102430-1

Laboratory: Eurofins TestAmerica, Pittsburgh

### Narrative

#### Job Narrative 180-102430-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 2/15/2020 10:15 AM, 2/20/2020 9:00 AM and 2/21/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 12 coolers at receipt time were 0.3° C, 1.0° C, 1.0° C, 1.2° C, 1.6° C, 1.6° C, 1.8° C, 1.8° C, 3.0° C, 3.4° C, 3.4° C and 3.9° C.

#### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody for the following jobs: 180-102587-1, 180-102681-1, and 180-1026831.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FD-2(AP) (180-102681-10). The container labels list FD-2(AP1), while the COC lists FD-2(AP). The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FB-2(AP) (180-102681-11). The container labels list FB-2(AP1), while the COC lists FB-2(AP). The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): EB-2(AP) (180-102681-13). The container labels list EB-2(AP1), while the COC lists EB-2(AP). The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): EB-3(AP) (180-102681-14). The container labels list EB-3(AP1), while the COC lists EB-3(AP). The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FD-3 (AP) (180-102683-2). The container labels list FD-3(AP1), while the COC lists FD-3(AP). The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FB-3 (AP) (180-102683-3). The container labels list FB-3(AP1), while the COC lists FB-3(AP). The id on the COC was used.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### RAD

Methods 903.0, 9315: Radium-226 Prep Batch 160-460927

Methods 903.0, 9315: Radium-226 Prep Batch 160-461560

Methods 903.0, 9315: Radium-226 Prep Batch 160-461603

Method 9315: Radium-226 Prep Batch 160-461863

Methods 904.0, 9320: Radium-228 Prep Batch 160-460931

Methods 904.0, 9320: Ra-228 Prep Batch 160-461564

Methods 904.0, 9320: Radium-228 Prep Batch 160-461608

Method 9320: Radium-228 Prep Batch 160-461869

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-1 (180-102430-1), SGWA-2 (180-102430-2), SGWA-24 (180-102430-3), (LCS 160-460927/1-A) and (MB 160-460927/19-A)  
SGWA-5 (180-102587-1), SGWA-25 (180-102587-2), (LCS 160-461560/1-A) and (MB 160-461560/13-A)

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-3 (180-102583-1), SGWA-4 (180-102583-2), SGWC-6 (180-102583-3), SGWC-7 (180-102583-4), SGWC-8 (180-102583-5), SGWC-11 (180-102583-6), SGWC-20 (180-102583-7), SGWC-21 (180-102583-8), SGWC-22 (180-102583-9), SGWC-23 (180-102583-10), FB-1 (AP) (180-102583-11), FD-1 (AP) (180-102583-12), (LCS 160-461603/1-A), (LCSD 160-461603/2-A) and (MB

# Case Narrative

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Job ID: 180-102430-1 (Continued)

### Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

160-461603/21-A)

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWC-9 (180-102681-1), SGWC-10 (180-102681-2), SGWC-12 (180-102681-3), SGWC-13 (180-102681-4), SGWC-14 (180-102681-5), SGWC-15 (180-102681-6), SGWC-16 (180-102681-7), SGWC-17 (180-102681-8), SGWC-19 (180-102681-9), FD-2(AP) (180-102681-10), FB-2(AP) (180-102681-11), EB-1(AP) (180-102681-12), EB-2(AP) (180-102681-13), EB-3(AP) (180-102681-14), SGWC-18 (180-102683-1), FD-3 (AP) (180-102683-2), FB-3 (AP) (180-102683-3), (LCS 160-461863/1-A), (LCSD 160-461863/2-A) and (MB 160-461863/21-A)

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-1 (180-102430-1), SGWA-2 (180-102430-2), SGWA-24 (180-102430-3), (LCS 160-460931/1-A) and (MB 160-460931/19-A)

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-5 (180-102587-1), SGWA-25 (180-102587-2), (LCS 160-461564/1-A) and (MB 160-461564/13-A)

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-3 (180-102583-1), SGWA-4 (180-102583-2), SGWC-6 (180-102583-3), SGWC-7 (180-102583-4), SGWC-8 (180-102583-5), SGWC-11 (180-102583-6), SGWC-20 (180-102583-7), SGWC-21 (180-102583-8), SGWC-22 (180-102583-9), SGWC-23 (180-102583-10), FB-1 (AP) (180-102583-11), FD-1 (AP) (180-102583-12), (LCS 160-461608/1-A), (LCSD 160-461608/2-A) and (MB 160-461608/21-A)

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWC-9 (180-102681-1), SGWC-10 (180-102681-2), SGWC-12 (180-102681-3), SGWC-13 (180-102681-4), SGWC-14 (180-102681-5), SGWC-15 (180-102681-6), SGWC-16 (180-102681-7), SGWC-17 (180-102681-8), SGWC-19 (180-102681-9), FD-2(AP) (180-102681-10), FB-2(AP) (180-102681-11), EB-1(AP) (180-102681-12), EB-2(AP) (180-102681-13), EB-3(AP) (180-102681-14), SGWC-18 (180-102683-1), FD-3 (AP) (180-102683-2), FB-3 (AP) (180-102683-3), (LCS 160-461869/1-A), (LCSD 160-461869/2-A) and (MB 160-461869/21-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Methods 6020B: The ICSAB for batch 180-308973 was outside the acceptance limits for element: strontium. An elevated concentration in the stock solution is suspected. All other QC for target analyte passes; therefore the data has been reported.

Method 6020B: The post digestion spike % recovery for multiple analytes associated with batch 180-308973 was outside of control limits. The following sample is impacted: SGWC-9 (180-102681-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Laboratory: Eurofins TestAmerica, Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	02-00416	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Field Sampling		Water	pH

## Laboratory: Eurofins TestAmerica, St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	68-00540	02-28-20 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228		Water	Combined Radium 226 + 228

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Sample Summary

Client: Southern Company  
 Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-102430-1	SGWA-1	Water	02/13/20 13:20	02/15/20 10:15	
180-102430-2	SGWA-2	Water	02/13/20 14:10	02/15/20 10:15	
180-102430-3	SGWA-24	Water	02/13/20 15:10	02/15/20 10:15	
180-102583-1	SGWA-3	Water	02/18/20 09:55	02/20/20 17:07	
180-102583-2	SGWA-4	Water	02/18/20 11:25	02/20/20 17:07	
180-102583-3	SGWC-6	Water	02/18/20 13:42	02/20/20 17:07	
180-102583-4	SGWC-7	Water	02/18/20 14:38	02/20/20 17:07	
180-102583-5	SGWC-8	Water	02/18/20 15:27	02/20/20 17:07	
180-102583-6	SGWC-11	Water	02/18/20 10:30	02/20/20 17:07	
180-102583-7	SGWC-20	Water	02/18/20 15:30	02/20/20 17:07	
180-102583-8	SGWC-21	Water	02/18/20 13:55	02/20/20 17:07	
180-102583-9	SGWC-22	Water	02/18/20 13:05	02/20/20 17:07	
180-102583-10	SGWC-23	Water	02/18/20 12:10	02/20/20 17:07	
180-102583-11	FB-1 (AP)	Water	02/18/20 10:00	02/20/20 17:07	
180-102583-12	FD-1 (AP)	Water	02/18/20 00:00	02/20/20 17:07	
180-102587-1	SGWA-5	Water	02/17/20 15:40	02/20/20 09:00	
180-102587-2	SGWA-25	Water	02/17/20 16:40	02/20/20 09:00	
180-102681-1	SGWC-9	Water	02/19/20 09:30	02/21/20 09:00	
180-102681-2	SGWC-10	Water	02/19/20 10:30	02/21/20 09:00	
180-102681-3	SGWC-12	Water	02/19/20 09:40	02/21/20 09:00	
180-102681-4	SGWC-13	Water	02/19/20 12:30	02/21/20 09:00	
180-102681-5	SGWC-14	Water	02/19/20 13:20	02/21/20 09:00	
180-102681-6	SGWC-15	Water	02/19/20 14:10	02/21/20 09:00	
180-102681-7	SGWC-16	Water	02/19/20 15:10	02/21/20 09:00	
180-102681-8	SGWC-17	Water	02/19/20 15:55	02/21/20 09:00	
180-102681-9	SGWC-19	Water	02/19/20 16:15	02/21/20 09:00	
180-102681-10	FD-2(AP)	Water	02/19/20 00:00	02/21/20 09:00	
180-102681-11	FB-2(AP)	Water	02/19/20 16:00	02/21/20 09:00	
180-102681-12	EB-1(AP)	Water	02/19/20 10:30	02/21/20 09:00	
180-102681-13	EB-2(AP)	Water	02/19/20 16:40	02/21/20 09:00	
180-102681-14	EB-3(AP)	Water	02/19/20 16:45	02/21/20 09:00	
180-102683-1	SGWC-18	Water	02/20/20 11:20	02/21/20 09:00	
180-102683-2	FD-3 (AP)	Water	02/20/20 00:00	02/21/20 09:00	
180-102683-3	FB-3 (AP)	Water	02/20/20 11:30	02/21/20 09:00	

# Method Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-1**

**Lab Sample ID: 180-102430-1**

**Date Collected: 02/13/20 13:20**

**Matrix: Water**

**Date Received: 02/15/20 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			307848	02/22/20 10:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	307719	02/20/20 15:35	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			307889	02/22/20 14:55	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308138	02/25/20 15:56	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308273	02/26/20 16:39	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.04 mL	1.0 g	460927	02/19/20 07:14	RBR	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464171	03/12/20 09:46	AJD	TAL SL
Total/NA	Prep	PrecSep_0			1000.04 mL	1.0 g	460931	02/19/20 07:43	RBR	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			463181	03/05/20 18:18	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464187	03/13/20 07:22	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			308823	02/13/20 13:20	FDS	TAL PIT

**Client Sample ID: SGWA-2**

**Lab Sample ID: 180-102430-2**

**Date Collected: 02/13/20 14:10**

**Matrix: Water**

**Date Received: 02/15/20 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			307848	02/22/20 11:20	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	307719	02/20/20 15:35	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			307889	02/22/20 14:57	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308138	02/25/20 15:56	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308273	02/26/20 16:40	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.89 mL	1.0 g	460927	02/19/20 07:14	RBR	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464171	03/12/20 09:47	AJD	TAL SL
Total/NA	Prep	PrecSep_0			1000.89 mL	1.0 g	460931	02/19/20 07:43	RBR	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			463181	03/05/20 18:18	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464187	03/13/20 07:22	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			308823	02/13/20 14:10	FDS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-24**

**Lab Sample ID: 180-102430-3**

**Date Collected: 02/13/20 15:10**

**Matrix: Water**

**Date Received: 02/15/20 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			307848	02/22/20 12:05	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	307719	02/20/20 15:35	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			307889	02/22/20 14:59	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308138	02/25/20 15:56	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308273	02/26/20 16:41	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.79 mL	1.0 g	460927	02/19/20 07:14	RBR	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464171	03/12/20 09:47	AJD	TAL SL
Total/NA	Prep	PrecSep_0			1000.79 mL	1.0 g	460931	02/19/20 07:43	RBR	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			463181	03/05/20 18:19	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464187	03/13/20 07:22	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			308823	02/13/20 15:10	FDS	TAL PIT

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-102583-1**

**Date Collected: 02/18/20 09:55**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308729	03/03/20 15:34	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308600	02/29/20 14:11	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308375	02/27/20 14:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308531	02/28/20 13:59	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			999.03 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCRED		1			464533	03/17/20 09:23	AJD	TAL SL
Total/NA	Prep	PrecSep_0			999.03 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			463812	03/11/20 17:19	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464635	03/18/20 07:24	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			307817	02/18/20 09:55	FDS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-4**

**Lab Sample ID: 180-102583-2**

**Date Collected: 02/18/20 11:25**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308729	03/03/20 16:19	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308600	02/29/20 14:23	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308375	02/27/20 14:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308531	02/28/20 13:59	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			999.18 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCRED		1			464533	03/17/20 09:23	AJD	TAL SL
Total/NA	Prep	PrecSep_0			999.18 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			463812	03/11/20 17:19	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464635	03/18/20 07:24	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			307817	02/18/20 11:25	FDS	TAL PIT

**Client Sample ID: SGWC-6**

**Lab Sample ID: 180-102583-3**

**Date Collected: 02/18/20 13:42**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308729	03/03/20 17:04	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308600	02/29/20 14:25	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308375	02/27/20 14:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308531	02/28/20 14:00	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.48 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCRED		1			464533	03/17/20 09:23	AJD	TAL SL
Total/NA	Prep	PrecSep_0			1000.48 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			463812	03/11/20 17:19	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464635	03/18/20 07:24	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			307817	02/18/20 13:42	FDS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-7**

**Lab Sample ID: 180-102583-4**

**Date Collected: 02/18/20 14:38**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308729	03/03/20 17:19	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308600	02/29/20 14:28	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308375	02/27/20 14:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308531	02/28/20 14:01	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.75 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315		1			464533	03/17/20 09:23	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.75 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463807	03/11/20 17:26	CJQ	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			464635	03/18/20 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			307817	02/18/20 14:38	FDS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-8**

**Lab Sample ID: 180-102583-5**

**Date Collected: 02/18/20 15:27**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308729	03/03/20 17:34	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308600	02/29/20 14:35	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308375	02/27/20 14:43	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308531	02/28/20 14:02	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.39 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315		1			464533	03/17/20 09:23	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.39 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463807	03/11/20 17:26	CJQ	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			464635	03/18/20 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			307817	02/18/20 15:27	FDS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-102583-6**

**Date Collected: 02/18/20 10:30**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308729	03/03/20 17:49	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308600	02/29/20 14:38	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308531	02/28/20 14:33	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.49 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315		1			464533	03/17/20 09:23	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.49 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463807	03/11/20 17:26	CJQ	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			464635	03/18/20 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			307817	02/18/20 10:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-20**

**Lab Sample ID: 180-102583-7**

**Date Collected: 02/18/20 15:30**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308729	03/03/20 18:04	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308600	02/29/20 14:40	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308531	02/28/20 14:34	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.86 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315		1			464533	03/17/20 09:23	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.86 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463807	03/11/20 17:26	CJQ	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			464635	03/18/20 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			307817	02/18/20 15:30	FDS	TAL PIT
Instrument ID: NOEQUIP										



# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-21**

**Lab Sample ID: 180-102583-8**

**Date Collected: 02/18/20 13:55**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308729	03/03/20 18:18	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308600	02/29/20 14:43	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308531	02/28/20 14:35	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.31 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315		1			464533	03/17/20 09:25	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.31 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463807	03/11/20 17:27	CJQ	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			464635	03/18/20 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			307817	02/18/20 13:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-22**

**Lab Sample ID: 180-102583-9**

**Date Collected: 02/18/20 13:05**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308729	03/03/20 18:33	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308600	02/29/20 14:45	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308531	02/28/20 14:36	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.13 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315		1			464533	03/17/20 09:25	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.13 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463807	03/11/20 17:27	CJQ	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			464635	03/18/20 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			307817	02/18/20 13:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

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# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-102583-10**

**Date Collected: 02/18/20 12:10**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308729	03/03/20 18:48	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308600	02/29/20 14:47	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308531	02/28/20 14:37	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.93 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315		1			464533	03/17/20 09:25	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.93 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463807	03/11/20 17:27	CJQ	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			464635	03/18/20 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			307817	02/18/20 12:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-1 (AP)**

**Lab Sample ID: 180-102583-11**

**Date Collected: 02/18/20 10:00**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308729	03/03/20 19:03	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308600	02/29/20 14:50	WTR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308531	02/28/20 14:38	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.91 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315		1			464533	03/17/20 09:25	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.91 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463807	03/11/20 17:27	CJQ	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			464635	03/18/20 07:24	SMP	TAL SL
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: FD-1 (AP)**

**Lab Sample ID: 180-102583-12**

**Date Collected: 02/18/20 00:00**

**Matrix: Water**

**Date Received: 02/20/20 17:07**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308729	03/03/20 19:18	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308600	02/29/20 14:52	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308531	02/28/20 14:39	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.57 mL	1.0 g	461603	02/24/20 11:42	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCRED		1			464533	03/17/20 09:25	AJD	TAL SL
Total/NA	Prep	PrecSep_0			1000.57 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPROTEAN		1			463807	03/11/20 17:27	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464635	03/18/20 07:24	SMP	TAL SL

**Client Sample ID: SGWA-5**

**Lab Sample ID: 180-102587-1**

**Date Collected: 02/17/20 15:40**

**Matrix: Water**

**Date Received: 02/20/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308729	03/03/20 14:35	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308600	02/29/20 15:05	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308531	02/28/20 14:50	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	461560	02/24/20 07:26	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464479	03/17/20 11:30	AJD	TAL SL
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	461564	02/24/20 07:36	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCORANGE		1			464148	03/11/20 17:37	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464632	03/18/20 07:03	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			307817	02/17/20 15:40	FDS	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-25**

**Lab Sample ID: 180-102587-2**

**Date Collected: 02/17/20 16:40**

**Matrix: Water**

**Date Received: 02/20/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308729	03/03/20 15:19	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308465	02/28/20 10:39	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308600	02/29/20 15:07	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308376	02/27/20 14:46	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308531	02/28/20 14:51	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.85 mL	1.0 g	461560	02/24/20 07:26	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464479	03/17/20 11:30	AJD	TAL SL
Total/NA	Prep	PrecSep_0			1000.85 mL	1.0 g	461564	02/24/20 07:36	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCORANGE		1			464148	03/11/20 17:38	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			464632	03/18/20 07:03	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			307817	02/17/20 16:40	FDS	TAL PIT

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-102681-1**

**Date Collected: 02/19/20 09:30**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308868	03/04/20 16:57	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308973	03/04/20 14:13	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 09:56	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308533	02/28/20 16:28	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308671	03/02/20 13:50	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.45 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 05:33	KLS	TAL SL
Total/NA	Prep	PrecSep_0			1000.45 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPROTEAN		1			464477	03/17/20 18:01	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			465052	03/20/20 08:03	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			308543	02/19/20 09:30	FDS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-102681-2**

**Date Collected: 02/19/20 10:30**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308868	03/04/20 17:12	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308973	03/04/20 14:25	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 10:18	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308533	02/28/20 16:28	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308671	03/02/20 13:51	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.09 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 05:33	KLS	TAL SL
Total/NA	Prep	PrecSep_0			1000.09 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPROTEAN		1			464477	03/17/20 18:01	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			465052	03/20/20 08:03	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			308543	02/19/20 10:30	FDS	TAL PIT

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-102681-3**

**Date Collected: 02/19/20 09:40**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308868	03/04/20 10:59	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308973	03/04/20 14:27	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 10:20	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308533	02/28/20 16:28	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308671	03/02/20 13:54	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.18 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 05:33	KLS	TAL SL
Total/NA	Prep	PrecSep_0			1000.18 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCPROTEAN		1			464477	03/17/20 18:01	KLS	TAL SL

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# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Client Sample ID: SGWC-12

Lab Sample ID: 180-102681-3

Date Collected: 02/19/20 09:40

Matrix: Water

Date Received: 02/21/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Total/NA	Analysis	Field Sampling		1			308543	02/19/20 09:40	FDS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-13

Lab Sample ID: 180-102681-4

Date Collected: 02/19/20 12:30

Matrix: Water

Date Received: 02/21/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308868	03/04/20 17:27	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308973	03/04/20 14:30	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			309083	03/05/20 10:23	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308533	02/28/20 16:28	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308671	03/02/20 13:55	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.79 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:34	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.79 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320		1			464477	03/17/20 18:01	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			308543	02/19/20 12:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-14

Lab Sample ID: 180-102681-5

Date Collected: 02/19/20 13:20

Matrix: Water

Date Received: 02/21/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308868	03/04/20 12:44	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308973	03/04/20 14:32	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			309083	03/05/20 10:25	RSK	TAL PIT
Instrument ID: NEMO										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-14**

**Lab Sample ID: 180-102681-5**

**Date Collected: 02/19/20 13:20**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	308533	02/28/20 16:28	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308671	03/02/20 13:56	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.05 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:34	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.05 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320		1			464477	03/17/20 18:01	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			308543	02/19/20 13:20	FDS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-102681-6**

**Date Collected: 02/19/20 14:10**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308868	03/04/20 11:44	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308973	03/04/20 14:39	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			309083	03/05/20 10:27	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308533	02/28/20 16:28	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308671	03/02/20 13:57	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.42 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:34	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.42 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320		1			464477	03/17/20 18:02	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			308543	02/19/20 14:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-16**

**Lab Sample ID: 180-102681-7**

**Date Collected: 02/19/20 15:10**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308868	03/04/20 11:59	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308973	03/04/20 14:42	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 10:30	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308533	02/28/20 16:28	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308671	03/02/20 13:58	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			999.00 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 05:34	KLS	TAL SL
Total/NA	Prep	PrecSep_0			999.00 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCORANGE		1			464628	03/17/20 18:08	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			465052	03/20/20 08:03	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			308543	02/19/20 15:10	FDS	TAL PIT

**Client Sample ID: SGWC-17**

**Lab Sample ID: 180-102681-8**

**Date Collected: 02/19/20 15:55**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308868	03/04/20 17:42	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308973	03/04/20 14:44	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 10:32	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308671	03/02/20 14:01	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.72 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 05:34	KLS	TAL SL
Total/NA	Prep	PrecSep_0			1000.72 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCORANGE		1			464628	03/17/20 18:09	KLS	TAL SL

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# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-17**

**Lab Sample ID: 180-102681-8**

**Date Collected: 02/19/20 15:55**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Total/NA	Analysis	Field Sampling		1			308543	02/19/20 15:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC19**

**Lab Sample ID: 180-102681-9**

**Date Collected: 02/19/20 16:15**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308868	03/04/20 17:57	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308973	03/04/20 14:47	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			309083	03/05/20 10:35	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308671	03/02/20 14:02	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.38 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:34	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.38 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320		1			464628	03/17/20 18:09	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			308543	02/19/20 16:15	FDS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FD-2(AP)**

**Lab Sample ID: 180-102681-10**

**Date Collected: 02/19/20 00:00**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308868	03/04/20 18:12	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308973	03/04/20 14:49	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			309083	03/05/20 10:37	RSK	TAL PIT
Instrument ID: NEMO										

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# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Client Sample ID: FD-2(AP)

## Lab Sample ID: 180-102681-10

Date Collected: 02/19/20 00:00

Matrix: Water

Date Received: 02/21/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308671	03/02/20 14:03	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.53 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:34	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.53 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320		1			464628	03/17/20 18:09	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: FB-2(AP)

## Lab Sample ID: 180-102681-11

Date Collected: 02/19/20 16:00

Matrix: Water

Date Received: 02/21/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308868	03/04/20 13:28	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308973	03/04/20 14:52	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			309083	03/05/20 10:40	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308671	03/02/20 14:06	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.48 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:34	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.48 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320		1			464628	03/17/20 18:10	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: EB-1(AP)

## Lab Sample ID: 180-102681-12

Date Collected: 02/19/20 10:30

Matrix: Water

Date Received: 02/21/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308868	03/04/20 13:43	MJH	TAL PIT
Instrument ID: CHICS2000										

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: EB-1(AP)**

**Lab Sample ID: 180-102681-12**

**Date Collected: 02/19/20 10:30**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308973	03/04/20 14:54	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			309083	03/05/20 10:47	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308671	03/02/20 14:07	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.80 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:34	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.80 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320		1			464628	03/17/20 18:10	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: EB-2(AP)**

**Lab Sample ID: 180-102681-13**

**Date Collected: 02/19/20 16:40**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			308868	03/04/20 13:58	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			308973	03/04/20 14:57	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			309083	03/05/20 10:49	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308671	03/02/20 14:08	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.85 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 07:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.85 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320		1			464628	03/17/20 18:10	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			465052	03/20/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

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# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: EB-3(AP)**

**Lab Sample ID: 180-102681-14**

**Date Collected: 02/19/20 16:45**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			308868	03/04/20 14:13	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			308973	03/04/20 14:59	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308652	03/02/20 12:52	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 10:52	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308671	03/02/20 14:08	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			999.30 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 07:47	KLS	TAL SL
Total/NA	Prep	PrecSep_0			999.30 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCORANGE		1			464628	03/17/20 18:10	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			465052	03/20/20 08:03	SMP	TAL SL

**Client Sample ID: SGWC-18**

**Lab Sample ID: 180-102683-1**

**Date Collected: 02/20/20 11:20**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			309066	03/06/20 10:53	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308788	03/03/20 13:06	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 13:26	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308671	03/02/20 14:22	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.70 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 07:47	KLS	TAL SL
Total/NA	Prep	PrecSep_0			1000.70 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCORANGE		1			464628	03/17/20 18:11	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			465052	03/20/20 08:03	SMP	TAL SL
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			308543	02/20/20 11:20	FDS	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: FD-3 (AP)**

**Lab Sample ID: 180-102683-2**

**Date Collected: 02/20/20 00:00**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			309066	03/06/20 11:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308788	03/03/20 13:06	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 13:28	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308534	02/28/20 16:30	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308671	03/02/20 14:23	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.08 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 07:47	KLS	TAL SL
Total/NA	Prep	PrecSep_0			1000.08 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCORANGE		1			464628	03/17/20 18:11	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			465052	03/20/20 08:03	SMP	TAL SL

**Client Sample ID: FB-3 (AP)**

**Lab Sample ID: 180-102683-3**

**Date Collected: 02/20/20 11:30**

**Matrix: Water**

**Date Received: 02/21/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			309066	03/06/20 10:32	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	308788	03/03/20 13:06	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			309083	03/05/20 13:30	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	308664	03/02/20 14:10	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			308803	03/03/20 13:28	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			999.65 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			464940	03/19/20 07:47	KLS	TAL SL
Total/NA	Prep	PrecSep_0			999.65 mL	1.0 g	461869	02/26/20 08:58	MNH	TAL SL
Total/NA	Analysis	9320 Instrument ID: GFPCORANGE		1			464628	03/17/20 18:11	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			465052	03/20/20 08:03	SMP	TAL SL

**Laboratory References:**

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Analyst References:

Lab: TAL PIT

Batch Type: Prep

JL = James Lyu

KEM = Kimberly Mahoney

NAM = Nicole Marfisi

Batch Type: Analysis

FDS = Sampler Field

MJH = Matthew Hartman

NAM = Nicole Marfisi

RSK = Robert Kurtz

WTR = Bill Reinheimer

Lab: TAL SL

Batch Type: Prep

MNH = Molly Howard

RBR = Rachael Ratcliff

Batch Type: Analysis

AJD = Audra DeMariano

CJQ = Caleb Quinn

KLS = Kody Saulters

SMP = Siobhan Perry

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-1**

**Lab Sample ID: 180-102430-1**

Date Collected: 02/13/20 13:20

Matrix: Water

Date Received: 02/15/20 10:15

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			02/22/20 10:36	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/20/20 15:35	02/22/20 14:55	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/20/20 15:35	02/22/20 14:55	1
Barium	0.042		0.010	0.0016	mg/L		02/20/20 15:35	02/22/20 14:55	1
Beryllium	0.00031	J	0.0025	0.00018	mg/L		02/20/20 15:35	02/22/20 14:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/20/20 15:35	02/22/20 14:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/20/20 15:35	02/22/20 14:55	1
Cobalt	0.0014	J	0.0025	0.00013	mg/L		02/20/20 15:35	02/22/20 14:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/20/20 15:35	02/22/20 14:55	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/20/20 15:35	02/22/20 14:55	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/20/20 15:35	02/22/20 14:55	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/20/20 15:35	02/22/20 14:55	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/20/20 15:35	02/22/20 14:55	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/25/20 15:56	02/26/20 16:39	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0373	U	0.0643	0.0643	1.00	0.113	pCi/L	02/19/20 07:14	03/12/20 09:46	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	101		40 - 110					02/19/20 07:14	03/12/20 09:46	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.115	U	0.209	0.209	1.00	0.355	pCi/L	02/19/20 07:43	03/05/20 18:18	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	101		40 - 110					02/19/20 07:43	03/05/20 18:18	1
Y Carrier	87.1		40 - 110					02/19/20 07:43	03/05/20 18:18	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.152	U	0.219	0.219	5.00	0.355	pCi/L		03/13/20 07:22	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.09				SU			02/13/20 13:20	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-2**

**Lab Sample ID: 180-102430-2**

Date Collected: 02/13/20 14:10

Matrix: Water

Date Received: 02/15/20 10:15

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.051	J	0.10	0.026	mg/L			02/22/20 11:20	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/20/20 15:35	02/22/20 14:57	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/20/20 15:35	02/22/20 14:57	1
Barium	0.043		0.010	0.0016	mg/L		02/20/20 15:35	02/22/20 14:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/20/20 15:35	02/22/20 14:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/20/20 15:35	02/22/20 14:57	1
Chromium	0.011		0.0020	0.0015	mg/L		02/20/20 15:35	02/22/20 14:57	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/20/20 15:35	02/22/20 14:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/20/20 15:35	02/22/20 14:57	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/20/20 15:35	02/22/20 14:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/20/20 15:35	02/22/20 14:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/20/20 15:35	02/22/20 14:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/20/20 15:35	02/22/20 14:57	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/25/20 15:56	02/26/20 16:40	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00150	U	0.0568	0.0568	1.00	0.115	pCi/L	02/19/20 07:14	03/12/20 09:47	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					02/19/20 07:14	03/12/20 09:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.203	U	0.235	0.236	1.00	0.387	pCi/L	02/19/20 07:43	03/05/20 18:18	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					02/19/20 07:43	03/05/20 18:18	1
Y Carrier	84.1		40 - 110					02/19/20 07:43	03/05/20 18:18	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.205	U	0.242	0.243	5.00	0.387	pCi/L		03/13/20 07:22	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.59				SU			02/13/20 14:10	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-24**

**Lab Sample ID: 180-102430-3**

Date Collected: 02/13/20 15:10

Matrix: Water

Date Received: 02/15/20 10:15

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.066	J	0.10	0.026	mg/L			02/22/20 12:05	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/20/20 15:35	02/22/20 14:59	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/20/20 15:35	02/22/20 14:59	1
Barium	0.025		0.010	0.0016	mg/L		02/20/20 15:35	02/22/20 14:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/20/20 15:35	02/22/20 14:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/20/20 15:35	02/22/20 14:59	1
Chromium	0.0036		0.0020	0.0015	mg/L		02/20/20 15:35	02/22/20 14:59	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/20/20 15:35	02/22/20 14:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/20/20 15:35	02/22/20 14:59	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/20/20 15:35	02/22/20 14:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/20/20 15:35	02/22/20 14:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/20/20 15:35	02/22/20 14:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/20/20 15:35	02/22/20 14:59	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/25/20 15:56	02/26/20 16:41	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0193	U	0.0637	0.0637	1.00	0.119	pCi/L	02/19/20 07:14	03/12/20 09:47	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					02/19/20 07:14	03/12/20 09:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.268	U	0.231	0.233	1.00	0.370	pCi/L	02/19/20 07:43	03/05/20 18:19	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					02/19/20 07:43	03/05/20 18:19	1
Y Carrier	86.7		40 - 110					02/19/20 07:43	03/05/20 18:19	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.287	U	0.240	0.242	5.00	0.370	pCi/L		03/13/20 07:22	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.24				SU			02/13/20 15:10	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-102583-1**

Date Collected: 02/18/20 09:55

Matrix: Water

Date Received: 02/20/20 17:07

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/03/20 15:34	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:11	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:11	1
Barium	0.040		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:11	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:11	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:11	1
Chromium	0.020		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:11	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:11	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:11	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:11	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:11	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:11	1
Thallium	0.00033	J	0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:11	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:43	02/28/20 13:59	1

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0567		0.0404	0.0407	1.00	0.0567	pCi/L	02/24/20 11:42	03/17/20 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					02/24/20 11:42	03/17/20 09:23	1

### Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.256	U	0.206	0.208	1.00	0.325	pCi/L	02/24/20 12:00	03/11/20 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					02/24/20 12:00	03/11/20 17:19	1
Y Carrier	92.3		40 - 110					02/24/20 12:00	03/11/20 17:19	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.313	U	0.210	0.212	5.00	0.325	pCi/L		03/18/20 07:24	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.76				SU			02/18/20 09:55	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-4**

**Lab Sample ID: 180-102583-2**

Date Collected: 02/18/20 11:25

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.068	J	0.10	0.026	mg/L			03/03/20 16:19	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:23	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:23	1
Barium	0.069		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:23	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:23	1
Chromium	0.0062		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:23	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:23	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:23	1
Molybdenum	0.00075	J	0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:23	1
Thallium	0.00049	J	0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:23	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:43	02/28/20 13:59	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0186	U	0.0342	0.0342	1.00	0.0604	pCi/L	02/24/20 11:42	03/17/20 09:23	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	95.7		40 - 110					02/24/20 11:42	03/17/20 09:23	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.180	U	0.213	0.214	1.00	0.352	pCi/L	02/24/20 12:00	03/11/20 17:19	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	95.7		40 - 110					02/24/20 12:00	03/11/20 17:19	1
Y Carrier	91.2		40 - 110					02/24/20 12:00	03/11/20 17:19	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.199	U	0.216	0.217	5.00	0.352	pCi/L		03/18/20 07:24	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.38				SU			02/18/20 11:25	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-6**

**Lab Sample ID: 180-102583-3**

Date Collected: 02/18/20 13:42

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.11		0.10	0.026	mg/L			03/03/20 17:04	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:25	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:25	1
Barium	0.083		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:25	1
Cadmium	<0.00022 ^		0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:25	1
Chromium	<0.00015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:25	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:25	1
Thallium	0.00028 J		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:25	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:43	02/28/20 14:00	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0164	U	0.0285	0.0286	1.00	0.0505	pCi/L	02/24/20 11:42	03/17/20 09:23	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	101		40 - 110					02/24/20 11:42	03/17/20 09:23	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0838	U	0.191	0.191	1.00	0.355	pCi/L	02/24/20 12:00	03/11/20 17:19	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	101		40 - 110					02/24/20 12:00	03/11/20 17:19	1
Y Carrier	94.6		40 - 110					02/24/20 12:00	03/11/20 17:19	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0675	U	0.193	0.193	5.00	0.355	pCi/L		03/18/20 07:24	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.32				SU			02/18/20 13:42	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-7**

**Lab Sample ID: 180-102583-4**

Date Collected: 02/18/20 14:38

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.20		0.10	0.026	mg/L			03/03/20 17:19	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:28	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:28	1
Barium	0.25		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:28	1
Cadmium	<0.00022 ^		0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:28	1
Chromium	<0.00015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:28	1
Cobalt	0.0067		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:28	1
Lithium	0.0052		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:28	1
Molybdenum	0.0014 J		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:28	1
Thallium	0.00022 J		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:28	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:43	02/28/20 14:01	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0803		0.0480	0.0485	1.00	0.0650	pCi/L	02/24/20 11:42	03/17/20 09:23	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	98.8		40 - 110					02/24/20 11:42	03/17/20 09:23	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.246	U	0.277	0.278	1.00	0.455	pCi/L	02/24/20 12:00	03/11/20 17:26	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	98.8		40 - 110					02/24/20 12:00	03/11/20 17:26	1
Y Carrier	94.2		40 - 110					02/24/20 12:00	03/11/20 17:26	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.326	U	0.281	0.282	5.00	0.455	pCi/L		03/18/20 07:24	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.35				SU			02/18/20 14:38	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-8**

**Lab Sample ID: 180-102583-5**

Date Collected: 02/18/20 15:27

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.38		0.10	0.026	mg/L			03/03/20 17:34	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:35	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:35	1
Barium	0.17		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:35	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:35	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:35	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:35	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:35	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:35	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:35	1
Thallium	0.00020	J	0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:35	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:43	02/28/20 14:02	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.349		0.0783	0.0844	1.00	0.0548	pCi/L	02/24/20 11:42	03/17/20 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					02/24/20 11:42	03/17/20 09:23	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.71		0.341	0.375	1.00	0.389	pCi/L	02/24/20 12:00	03/11/20 17:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					02/24/20 12:00	03/11/20 17:26	1
Y Carrier	93.1		40 - 110					02/24/20 12:00	03/11/20 17:26	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.06		0.350	0.384	5.00	0.389	pCi/L		03/18/20 07:24	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.39				SU			02/18/20 15:27	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-102583-6**

Date Collected: 02/18/20 10:30

Matrix: Water

Date Received: 02/20/20 17:07

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/03/20 17:49	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:38	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:38	1
<b>Barium</b>	<b>0.044</b>		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:38	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:38	1
Chromium	<0.00015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:38	1
<b>Cobalt</b>	<b>0.018</b>		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:38	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:38	1
<b>Thallium</b>	<b>0.00016</b>	<b>J</b>	0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:38	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:33	1

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0531	U	0.0417	0.0420	1.00	0.0613	pCi/L	02/24/20 11:42	03/17/20 09:23	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.5		40 - 110					02/24/20 11:42	03/17/20 09:23	1

### Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.150	U	0.245	0.245	1.00	0.412	pCi/L	02/24/20 12:00	03/11/20 17:26	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.5		40 - 110					02/24/20 12:00	03/11/20 17:26	1
Y Carrier	93.5		40 - 110					02/24/20 12:00	03/11/20 17:26	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.203	U	0.249	0.249	5.00	0.412	pCi/L		03/18/20 07:24	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.09				SU			02/18/20 10:30	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-20**

**Lab Sample ID: 180-102583-7**

Date Collected: 02/18/20 15:30

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.16		0.10	0.026	mg/L			03/03/20 18:04	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:40	1
Arsenic	0.00032	J	0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:40	1
Barium	0.023		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:40	1
Beryllium	0.00052	J	0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:40	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:40	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:40	1
Cobalt	0.12		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:40	1
Lead	0.00025	J	0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:40	1
Lithium	0.0036	J	0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:40	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:40	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:40	1
Thallium	0.00033	J	0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:40	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:34	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0636	U	0.0453	0.0457	1.00	0.0648	pCi/L	02/24/20 11:42	03/17/20 09:23	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.8		40 - 110					02/24/20 11:42	03/17/20 09:23	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.411	U	0.294	0.297	1.00	0.465	pCi/L	02/24/20 12:00	03/11/20 17:26	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.8		40 - 110					02/24/20 12:00	03/11/20 17:26	1
Y Carrier	94.6		40 - 110					02/24/20 12:00	03/11/20 17:26	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.474		0.297	0.300	5.00	0.465	pCi/L		03/18/20 07:24	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.30				SU			02/18/20 15:30	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-21**

**Lab Sample ID: 180-102583-8**

Date Collected: 02/18/20 13:55

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.073	J	0.10	0.026	mg/L			03/03/20 18:18	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:43	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:43	1
Barium	0.11		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:43	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:43	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:43	1
Chromium	<0.00015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:43	1
Cobalt	0.00014	J	0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:43	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:43	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:43	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:43	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:43	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:43	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:35	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0407	U	0.0402	0.0404	1.00	0.0631	pCi/L	02/24/20 11:42	03/17/20 09:25	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.9		40 - 110					02/24/20 11:42	03/17/20 09:25	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.246	U	0.244	0.245	1.00	0.397	pCi/L	02/24/20 12:00	03/11/20 17:27	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.9		40 - 110					02/24/20 12:00	03/11/20 17:27	1
Y Carrier	93.5		40 - 110					02/24/20 12:00	03/11/20 17:27	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.287	U	0.247	0.248	5.00	0.397	pCi/L		03/18/20 07:24	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.06				SU			02/18/20 13:55	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-22**

**Lab Sample ID: 180-102583-9**

Date Collected: 02/18/20 13:05

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/03/20 18:33	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:45	1
<b>Arsenic</b>	<b>0.00034</b>	<b>J</b>	0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:45	1
<b>Barium</b>	<b>0.085</b>		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:45	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:45	1
<b>Chromium</b>	<b>0.0015</b>	<b>J</b>	0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:45	1
<b>Cobalt</b>	<b>0.0018</b>	<b>J</b>	0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:45	1
<b>Lead</b>	<b>0.00018</b>	<b>J</b>	0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:45	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:36	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0549	U	0.0414	0.0417	1.00	0.0602	pCi/L	02/24/20 11:42	03/17/20 09:25	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					02/24/20 11:42	03/17/20 09:25	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0440	U	0.209	0.209	1.00	0.380	pCi/L	02/24/20 12:00	03/11/20 17:27	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					02/24/20 12:00	03/11/20 17:27	1
Y Carrier	95.7		40 - 110					02/24/20 12:00	03/11/20 17:27	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0109	U	0.213	0.213	5.00	0.380	pCi/L		03/18/20 07:24	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.59				SU			02/18/20 13:05	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-102583-10**

Date Collected: 02/18/20 12:10

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.082	J	0.10	0.026	mg/L			03/03/20 18:48	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:47	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:47	1
Barium	0.065		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:47	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:47	1
Chromium	<0.00015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:47	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:47	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:47	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:37	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.194		0.0677	0.0699	1.00	0.0745	pCi/L	02/24/20 11:42	03/17/20 09:25	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	96.3		40 - 110					02/24/20 11:42	03/17/20 09:25	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.205	U	0.241	0.241	1.00	0.397	pCi/L	02/24/20 12:00	03/11/20 17:27	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	96.3		40 - 110					02/24/20 12:00	03/11/20 17:27	1
Y Carrier	95.3		40 - 110					02/24/20 12:00	03/11/20 17:27	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.399		0.250	0.251	5.00	0.397	pCi/L		03/18/20 07:24	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.95				SU			02/18/20 12:10	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: FB-1 (AP)**

**Lab Sample ID: 180-102583-11**

Date Collected: 02/18/20 10:00

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/03/20 19:03	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:50	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:50	1
Barium	<0.0016		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:50	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:50	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:50	1
Chromium	<0.00015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:50	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:50	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:50	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:50	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:50	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:38	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0172	U	0.0378	0.0378	1.00	0.0675	pCi/L	02/24/20 11:42	03/17/20 09:25	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	102		40 - 110					02/24/20 11:42	03/17/20 09:25	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.171	U	0.224	0.224	1.00	0.421	pCi/L	02/24/20 12:00	03/11/20 17:27	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	102		40 - 110					02/24/20 12:00	03/11/20 17:27	1
Y Carrier	93.5		40 - 110					02/24/20 12:00	03/11/20 17:27	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.154	U	0.227	0.227	5.00	0.421	pCi/L		03/18/20 07:24	1

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: FD-1 (AP)**

**Lab Sample ID: 180-102583-12**

Date Collected: 02/18/20 00:00

Matrix: Water

Date Received: 02/20/20 17:07

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/03/20 19:18	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:52	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:52	1
<b>Barium</b>	<b>0.042</b>		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:52	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 14:52	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 14:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:52	1
<b>Cobalt</b>	<b>0.018</b>		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:52	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 14:52	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:52	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:52	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:39	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0321	U	0.0442	0.0442	1.00	0.0743	pCi/L	02/24/20 11:42	03/17/20 09:25	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	109		40 - 110					02/24/20 11:42	03/17/20 09:25	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.164	U	0.212	0.213	1.00	0.352	pCi/L	02/24/20 12:00	03/11/20 17:27	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	109		40 - 110					02/24/20 12:00	03/11/20 17:27	1
Y Carrier	94.2		40 - 110					02/24/20 12:00	03/11/20 17:27	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.196	U	0.217	0.218	5.00	0.352	pCi/L		03/18/20 07:24	1

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-5**

**Lab Sample ID: 180-102587-1**

Date Collected: 02/17/20 15:40

Matrix: Water

Date Received: 02/20/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/03/20 14:35	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 15:05	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 15:05	1
<b>Barium</b>	<b>0.010</b>		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 15:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 15:05	1
Cadmium	<0.00022	^	0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 15:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 15:05	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 15:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 15:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 15:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 15:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 15:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 15:05	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:50	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0370	U	0.0838	0.0839	1.00	0.151	pCi/L	02/24/20 07:26	03/17/20 11:30	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	96.9		40 - 110					02/24/20 07:26	03/17/20 11:30	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0660	U	0.210	0.210	1.00	0.390	pCi/L	02/24/20 07:36	03/11/20 17:37	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	96.9		40 - 110					02/24/20 07:36	03/11/20 17:37	1
Y Carrier	85.6		40 - 110					02/24/20 07:36	03/11/20 17:37	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0291	U	0.226	0.226	5.00	0.390	pCi/L		03/18/20 07:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.73				SU			02/17/20 15:40	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWA-25**

**Lab Sample ID: 180-102587-2**

Date Collected: 02/17/20 16:40

Matrix: Water

Date Received: 02/20/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.041	J	0.10	0.026	mg/L			03/03/20 15:19	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 15:07	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 15:07	1
Barium	0.026		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 15:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/28/20 10:39	02/29/20 15:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/28/20 10:39	02/29/20 15:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 15:07	1
Cobalt	0.0044		0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 15:07	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 15:07	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 15:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/28/20 10:39	02/29/20 15:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 15:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 15:07	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:51	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0548	U	0.0647	0.0649	1.00	0.105	pCi/L	02/24/20 07:26	03/17/20 11:30	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	102		40 - 110					02/24/20 07:26	03/17/20 11:30	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0868	U	0.185	0.185	1.00	0.351	pCi/L	02/24/20 07:36	03/11/20 17:38	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	102		40 - 110					02/24/20 07:36	03/11/20 17:38	1
Y Carrier	85.6		40 - 110					02/24/20 07:36	03/11/20 17:38	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0319	U	0.196	0.196	5.00	0.351	pCi/L		03/18/20 07:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.10				SU			02/17/20 16:40	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-102681-1**

Date Collected: 02/19/20 09:30

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.061	J	0.10	0.026	mg/L			03/04/20 16:57	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:13	1
Arsenic	0.00039	J	0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 09:56	1
Barium	0.065		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:13	1
Cobalt	0.0082		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:13	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:13	1
Molybdenum	0.00063	J	0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:13	1
Thallium	0.00027	J	0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:13	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:28	03/02/20 13:50	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0218	U	0.129	0.129	1.00	0.248	pCi/L	02/26/20 08:43	03/19/20 05:33	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	91.4		40 - 110					02/26/20 08:43	03/19/20 05:33	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0386	U	0.283	0.283	1.00	0.498	pCi/L	02/26/20 08:58	03/17/20 18:01	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	91.4		40 - 110					02/26/20 08:58	03/17/20 18:01	1
Y Carrier	79.6		40 - 110					02/26/20 08:58	03/17/20 18:01	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0604	U	0.311	0.311	5.00	0.498	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.03				SU			02/19/20 09:30	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-102681-2**

Date Collected: 02/19/20 10:30

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/04/20 17:12	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:25	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:18	1
Barium	0.027		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:25	1
Beryllium	0.00026	J	0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:25	1
Cobalt	0.027		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:25	1
Lead	0.00014	J	0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:25	1
Thallium	0.00075	J	0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:25	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:28	03/02/20 13:51	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0172	U	0.112	0.112	1.00	0.220	pCi/L	02/26/20 08:43	03/19/20 05:33	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.0		40 - 110					02/26/20 08:43	03/19/20 05:33	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00502	U	0.247	0.247	1.00	0.444	pCi/L	02/26/20 08:58	03/17/20 18:01	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.0		40 - 110					02/26/20 08:58	03/17/20 18:01	1
Y Carrier	80.7		40 - 110					02/26/20 08:58	03/17/20 18:01	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0222	U	0.271	0.271	5.00	0.444	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.07				SU			02/19/20 10:30	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-102681-3**

Date Collected: 02/19/20 09:40

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.064	J	0.10	0.026	mg/L			03/04/20 10:59	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:27	1
Arsenic	0.00032	J	0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:20	1
Barium	0.053		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:27	1
Cobalt	0.0027		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:27	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:27	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:27	1
Thallium	0.00034	J	0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:27	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:28	03/02/20 13:54	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0376	U	0.0786	0.0787	1.00	0.191	pCi/L	02/26/20 08:43	03/19/20 05:33	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.8		40 - 110					02/26/20 08:43	03/19/20 05:33	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.204	U	0.272	0.272	1.00	0.452	pCi/L	02/26/20 08:58	03/17/20 18:01	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.8		40 - 110					02/26/20 08:58	03/17/20 18:01	1
Y Carrier	80.7		40 - 110					02/26/20 08:58	03/17/20 18:01	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.166	U	0.283	0.283	5.00	0.452	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.07				SU			02/19/20 09:40	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-102681-4**

Date Collected: 02/19/20 12:30

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.027	J	0.10	0.026	mg/L			03/04/20 17:27	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:30	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:23	1
Barium	0.033		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:30	1
Cobalt	0.0018	J	0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:30	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:30	1
Thallium	0.00022	J	0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:30	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:28	03/02/20 13:55	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0862	U	0.118	0.119	1.00	0.200	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	90.5		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.132	U	0.272	0.272	1.00	0.465	pCi/L	02/26/20 08:58	03/17/20 18:01	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	90.5		40 - 110					02/26/20 08:58	03/17/20 18:01	1
Y Carrier	81.5		40 - 110					02/26/20 08:58	03/17/20 18:01	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.218	U	0.296	0.297	5.00	0.465	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.94				SU			02/19/20 12:30	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-14**

**Lab Sample ID: 180-102681-5**

Date Collected: 02/19/20 13:20

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.026	J	0.10	0.026	mg/L			03/04/20 12:44	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:32	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:25	1
Barium	0.047		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:32	1
Cobalt	0.0099		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:32	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:32	1
Thallium	0.00018	J	0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:32	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	B	0.00020	0.00010	mg/L		02/28/20 16:28	03/02/20 13:56	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0329	U	0.134	0.134	1.00	0.251	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.1		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0268	U	0.244	0.244	1.00	0.439	pCi/L	02/26/20 08:58	03/17/20 18:01	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.1		40 - 110					02/26/20 08:58	03/17/20 18:01	1
Y Carrier	82.2		40 - 110					02/26/20 08:58	03/17/20 18:01	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00610	U	0.278	0.278	5.00	0.439	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.75				SU			02/19/20 13:20	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-102681-6**

Date Collected: 02/19/20 14:10

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.13		0.10	0.026	mg/L			03/04/20 11:44	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:39	1
Arsenic	0.0010		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:27	1
Barium	0.031		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:39	1
Beryllium	0.00045	J	0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:39	1
Cadmium	0.00030	J	0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:39	1
Chromium	0.038		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:39	1
Cobalt	0.28		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:39	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:39	1
Thallium	0.00031	J	0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:39	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B	0.00020	0.00010	mg/L		02/28/20 16:28	03/02/20 13:57	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00818	U	0.0907	0.0907	1.00	0.194	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.0		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.423	U	0.302	0.304	1.00	0.473	pCi/L	02/26/20 08:58	03/17/20 18:02	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.0		40 - 110					02/26/20 08:58	03/17/20 18:02	1
Y Carrier	81.5		40 - 110					02/26/20 08:58	03/17/20 18:02	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.415	U	0.315	0.317	5.00	0.473	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.58				SU			02/19/20 14:10	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-16**

**Lab Sample ID: 180-102681-7**

Date Collected: 02/19/20 15:10

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/04/20 11:59	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:42	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:30	1
<b>Barium</b>	<b>0.029</b>		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:42	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:42	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:42	1
<b>Chromium</b>	<b>0.014</b>		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:42	1
<b>Cobalt</b>	<b>0.0047</b>		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:42	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:42	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:28	03/02/20 13:58	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00602	U	0.130	0.130	1.00	0.257	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.9		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0261	U	0.227	0.227	1.00	0.405	pCi/L	02/26/20 08:58	03/17/20 18:08	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.9		40 - 110					02/26/20 08:58	03/17/20 18:08	1
Y Carrier	82.6		40 - 110					02/26/20 08:58	03/17/20 18:08	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0321	U	0.262	0.262	5.00	0.405	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.16				SU			02/19/20 15:10	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-17**

**Lab Sample ID: 180-102681-8**

Date Collected: 02/19/20 15:55

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.046	J	0.10	0.026	mg/L			03/04/20 17:42	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:44	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:32	1
Barium	0.022		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:44	1
Chromium	0.0045		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:44	1
Cobalt	0.00034	J	0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:44	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:44	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:44	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:01	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0174	U	0.114	0.114	1.00	0.223	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.5		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.199	U	0.247	0.247	1.00	0.408	pCi/L	02/26/20 08:58	03/17/20 18:09	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.5		40 - 110					02/26/20 08:58	03/17/20 18:09	1
Y Carrier	81.5		40 - 110					02/26/20 08:58	03/17/20 18:09	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.217	U	0.272	0.272	5.00	0.408	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.16				SU			02/19/20 15:55	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC19**

**Lab Sample ID: 180-102681-9**

Date Collected: 02/19/20 16:15

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/04/20 17:57	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:47	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:35	1
<b>Barium</b>	<b>0.034</b>		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:47	1
<b>Chromium</b>	<b>0.017</b>		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:47	1
<b>Cobalt</b>	<b>0.00015 J</b>		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:47	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:47	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:02	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0821	U	0.146	0.147	1.00	0.256	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	90.2		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.226	U	0.264	0.265	1.00	0.434	pCi/L	02/26/20 08:58	03/17/20 18:09	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	90.2		40 - 110					02/26/20 08:58	03/17/20 18:09	1
Y Carrier	83.7		40 - 110					02/26/20 08:58	03/17/20 18:09	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.308	U	0.302	0.303	5.00	0.434	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.53				SU			02/19/20 16:15	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: FD-2(AP)**

**Lab Sample ID: 180-102681-10**

Date Collected: 02/19/20 00:00

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.064	J	0.10	0.026	mg/L			03/04/20 18:12	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:49	1
Arsenic	0.00043	J	0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:37	1
Barium	0.068		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:49	1
Cobalt	0.0086		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:49	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:49	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:49	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:03	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00154	U	0.107	0.107	1.00	0.223	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	91.1		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.436	U	0.334	0.337	1.00	0.531	pCi/L	02/26/20 08:58	03/17/20 18:09	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	91.1		40 - 110					02/26/20 08:58	03/17/20 18:09	1
Y Carrier	81.5		40 - 110					02/26/20 08:58	03/17/20 18:09	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.434	U	0.351	0.354	5.00	0.531	pCi/L		03/20/20 08:03	1

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: FB-2(AP)**

**Lab Sample ID: 180-102681-11**

Date Collected: 02/19/20 16:00

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/04/20 13:28	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:52	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:40	1
Barium	<0.0016		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:52	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:52	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:52	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:52	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:52	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:52	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:06	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0635	U	0.134	0.134	1.00	0.240	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.3		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.127	U	0.256	0.256	1.00	0.436	pCi/L	02/26/20 08:58	03/17/20 18:10	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.3		40 - 110					02/26/20 08:58	03/17/20 18:10	1
Y Carrier	82.6		40 - 110					02/26/20 08:58	03/17/20 18:10	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.191	U	0.289	0.289	5.00	0.436	pCi/L		03/20/20 08:03	1

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: EB-1(AP)**

**Lab Sample ID: 180-102681-12**

Date Collected: 02/19/20 10:30

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/04/20 13:43	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:54	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:47	1
Barium	<0.0016		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:54	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:54	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:54	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:54	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:54	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:07	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0158	U	0.117	0.117	1.00	0.242	pCi/L	02/26/20 08:43	03/19/20 05:34	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	96.6		40 - 110					02/26/20 08:43	03/19/20 05:34	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.362	U	0.272	0.274	1.00	0.428	pCi/L	02/26/20 08:58	03/17/20 18:10	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	96.6		40 - 110					02/26/20 08:58	03/17/20 18:10	1
Y Carrier	84.1		40 - 110					02/26/20 08:58	03/17/20 18:10	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.346	U	0.296	0.298	5.00	0.428	pCi/L		03/20/20 08:03	1

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: EB-2(AP)**

**Lab Sample ID: 180-102681-13**

Date Collected: 02/19/20 16:40

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/04/20 13:58	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:57	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:49	1
Barium	<0.0016		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:57	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:57	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:57	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:08	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00529	U	0.111	0.111	1.00	0.220	pCi/L	02/26/20 08:43	03/19/20 07:47	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.5		40 - 110					02/26/20 08:43	03/19/20 07:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0655	U	0.220	0.220	1.00	0.384	pCi/L	02/26/20 08:58	03/17/20 18:10	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.5		40 - 110					02/26/20 08:58	03/17/20 18:10	1
Y Carrier	84.1		40 - 110					02/26/20 08:58	03/17/20 18:10	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0708	U	0.246	0.246	5.00	0.384	pCi/L		03/20/20 08:03	1

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: EB-3(AP)**

**Lab Sample ID: 180-102681-14**

Date Collected: 02/19/20 16:45

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/04/20 14:13	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 14:59	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 10:52	1
Barium	<0.0016		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 14:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 14:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 14:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:59	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 14:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 14:59	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 14:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 14:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 14:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 14:59	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:08	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0144	U	0.103	0.103	1.00	0.202	pCi/L	02/26/20 08:43	03/19/20 07:47	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.8		40 - 110					02/26/20 08:43	03/19/20 07:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.236	U	0.253	0.254	1.00	0.414	pCi/L	02/26/20 08:58	03/17/20 18:10	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.8		40 - 110					02/26/20 08:58	03/17/20 18:10	1
Y Carrier	83.7		40 - 110					02/26/20 08:58	03/17/20 18:10	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.251	U	0.273	0.274	5.00	0.414	pCi/L		03/20/20 08:03	1

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: SGWC-18**

**Lab Sample ID: 180-102683-1**

Date Collected: 02/20/20 11:20

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/06/20 10:53	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Arsenic</b>	<b>0.0031</b>		0.0010	0.00031	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Barium</b>	<b>0.023</b>		0.010	0.0016	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Beryllium</b>	<b>0.00049 J</b>		0.0025	0.00018	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Cadmium</b>	<b>0.00032 J</b>		0.0025	0.00022	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Chromium</b>	<b>0.011</b>		0.0020	0.0015	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Cobalt</b>	<b>0.14</b>		0.0025	0.00013	mg/L		03/03/20 13:06	03/05/20 13:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Lithium</b>	<b>0.0045 J</b>		0.0050	0.0034	mg/L		03/03/20 13:06	03/05/20 13:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Selenium</b>	<b>0.0024 J</b>		0.0050	0.0015	mg/L		03/03/20 13:06	03/05/20 13:26	1
<b>Thallium</b>	<b>0.00066 J</b>		0.0010	0.00015	mg/L		03/03/20 13:06	03/05/20 13:26	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00022</b>		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:22	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0488	U	0.130	0.130	1.00	0.237	pCi/L	02/26/20 08:43	03/19/20 07:47	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	93.8		40 - 110					02/26/20 08:43	03/19/20 07:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.171	U	0.243	0.244	1.00	0.407	pCi/L	02/26/20 08:58	03/17/20 18:11	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	93.8		40 - 110					02/26/20 08:58	03/17/20 18:11	1
Y Carrier	84.5		40 - 110					02/26/20 08:58	03/17/20 18:11	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.220	U	0.276	0.276	5.00	0.407	pCi/L		03/20/20 08:03	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.64				SU			02/20/20 11:20	1

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# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: FD-3 (AP)**

**Lab Sample ID: 180-102683-2**

Date Collected: 02/20/20 00:00

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/06/20 11:30	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/03/20 13:06	03/05/20 13:28	1
<b>Arsenic</b>	<b>0.0035</b>		0.0010	0.00031	mg/L		03/03/20 13:06	03/05/20 13:28	1
<b>Barium</b>	<b>0.023</b>		0.010	0.0016	mg/L		03/03/20 13:06	03/05/20 13:28	1
<b>Beryllium</b>	<b>0.00040</b>	<b>J</b>	0.0025	0.00018	mg/L		03/03/20 13:06	03/05/20 13:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/20 13:06	03/05/20 13:28	1
<b>Chromium</b>	<b>0.011</b>		0.0020	0.0015	mg/L		03/03/20 13:06	03/05/20 13:28	1
<b>Cobalt</b>	<b>0.14</b>		0.0025	0.00013	mg/L		03/03/20 13:06	03/05/20 13:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/03/20 13:06	03/05/20 13:28	1
<b>Lithium</b>	<b>0.0047</b>	<b>J</b>	0.0050	0.0034	mg/L		03/03/20 13:06	03/05/20 13:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/20 13:06	03/05/20 13:28	1
<b>Selenium</b>	<b>0.0024</b>	<b>J</b>	0.0050	0.0015	mg/L		03/03/20 13:06	03/05/20 13:28	1
<b>Thallium</b>	<b>0.00048</b>	<b>J</b>	0.0010	0.00015	mg/L		03/03/20 13:06	03/05/20 13:28	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00023</b>		0.00020	0.00010	mg/L		02/28/20 16:30	03/02/20 14:23	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0996	U	0.128	0.128	1.00	0.212	pCi/L	02/26/20 08:43	03/19/20 07:47	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	93.5		40 - 110					02/26/20 08:43	03/19/20 07:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.273	U	0.240	0.241	1.00	0.383	pCi/L	02/26/20 08:58	03/17/20 18:11	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	93.5		40 - 110					02/26/20 08:58	03/17/20 18:11	1
Y Carrier	84.9		40 - 110					02/26/20 08:58	03/17/20 18:11	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.373	U	0.272	0.273	5.00	0.383	pCi/L		03/20/20 08:03	1

# Client Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

**Client Sample ID: FB-3 (AP)**

**Lab Sample ID: 180-102683-3**

Date Collected: 02/20/20 11:30

Matrix: Water

Date Received: 02/21/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/06/20 10:32	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/03/20 13:06	03/05/20 13:30	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/03/20 13:06	03/05/20 13:30	1
Barium	<0.0016		0.010	0.0016	mg/L		03/03/20 13:06	03/05/20 13:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/03/20 13:06	03/05/20 13:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/20 13:06	03/05/20 13:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/20 13:06	03/05/20 13:30	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/03/20 13:06	03/05/20 13:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/03/20 13:06	03/05/20 13:30	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/03/20 13:06	03/05/20 13:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/20 13:06	03/05/20 13:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/03/20 13:06	03/05/20 13:30	1
<b>Thallium</b>	<b>0.00016</b>	<b>J</b>	0.0010	0.00015	mg/L		03/03/20 13:06	03/05/20 13:30	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/02/20 14:10	03/03/20 13:28	1

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0178	U	0.0946	0.0946	1.00	0.188	pCi/L	02/26/20 08:43	03/19/20 07:47	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.5		40 - 110					02/26/20 08:43	03/19/20 07:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.284	U	0.223	0.224	1.00	0.350	pCi/L	02/26/20 08:58	03/17/20 18:11	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.5		40 - 110					02/26/20 08:58	03/17/20 18:11	1
Y Carrier	87.5		40 - 110					02/26/20 08:58	03/17/20 18:11	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.302	U	0.242	0.243	5.00	0.350	pCi/L		03/20/20 08:03	1



# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-307848/6**  
**Matrix: Water**  
**Analysis Batch: 307848**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			02/22/20 06:00	1

**Lab Sample ID: LCS 180-307848/5**  
**Matrix: Water**  
**Analysis Batch: 307848**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.59		mg/L		104	90 - 110

**Lab Sample ID: 180-102430-1 MS**  
**Matrix: Water**  
**Analysis Batch: 307848**

**Client Sample ID: SGWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.026		1.25	1.35		mg/L		108	80 - 120

**Lab Sample ID: 180-102430-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 307848**

**Client Sample ID: SGWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.026		1.25	1.32		mg/L		105	80 - 120	2	20

**Lab Sample ID: MB 180-308729/18**  
**Matrix: Water**  
**Analysis Batch: 308729**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/03/20 14:20	1

**Lab Sample ID: LCS 180-308729/17**  
**Matrix: Water**  
**Analysis Batch: 308729**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.55		mg/L		102	90 - 110

**Lab Sample ID: 180-102583-1 MS**  
**Matrix: Water**  
**Analysis Batch: 308729**

**Client Sample ID: SGWA-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.026		1.25	1.26		mg/L		101	80 - 120

**Lab Sample ID: 180-102583-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 308729**

**Client Sample ID: SGWA-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.026		1.25	1.28		mg/L		103	80 - 120	2	20

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: 180-102587-1 MS**  
**Matrix: Water**  
**Analysis Batch: 308729**

**Client Sample ID: SGWA-5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.026		1.25	1.28		mg/L		102	80 - 120

**Lab Sample ID: 180-102587-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 308729**

**Client Sample ID: SGWA-5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.026		1.25	1.28		mg/L		103	80 - 120	1	20

**Lab Sample ID: MB 180-308868/6**  
**Matrix: Water**  
**Analysis Batch: 308868**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/04/20 10:44	1

**Lab Sample ID: LCS 180-308868/5**  
**Matrix: Water**  
**Analysis Batch: 308868**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.39		mg/L		96	90 - 110

**Lab Sample ID: 180-102681-3 MS**  
**Matrix: Water**  
**Analysis Batch: 308868**

**Client Sample ID: SGWC-12**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.064	J	1.25	1.19		mg/L		90	80 - 120

**Lab Sample ID: 180-102681-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 308868**

**Client Sample ID: SGWC-12**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.064	J	1.25	1.27		mg/L		96	80 - 120	6	20

**Lab Sample ID: 180-102681-7 MS**  
**Matrix: Water**  
**Analysis Batch: 308868**

**Client Sample ID: SGWC-16**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.026		1.25	1.20		mg/L		96	80 - 120

**Lab Sample ID: 180-102681-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 308868**

**Client Sample ID: SGWC-16**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.026		1.25	1.19		mg/L		95	80 - 120	1	20

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-309066/6**  
**Matrix: Water**  
**Analysis Batch: 309066**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			03/06/20 07:03	1

**Lab Sample ID: LCS 180-309066/5**  
**Matrix: Water**  
**Analysis Batch: 309066**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.50		mg/L		100	90 - 110

**Lab Sample ID: 180-102787-B-5 MS**  
**Matrix: Water**  
**Analysis Batch: 309066**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.043	J	1.25	1.35		mg/L		104	80 - 120

**Lab Sample ID: 180-102787-B-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 309066**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.043	J	1.25	1.36		mg/L		106	80 - 120	1	20

## Method: EPA 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 180-307719/1-A**  
**Matrix: Water**  
**Analysis Batch: 307889**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 307719**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/20/20 15:35	02/22/20 14:20	1
Arsenic	<0.00031	^	0.0010	0.00031	mg/L		02/20/20 15:35	02/22/20 14:20	1
Barium	<0.0016		0.010	0.0016	mg/L		02/20/20 15:35	02/22/20 14:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/20/20 15:35	02/22/20 14:20	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/20/20 15:35	02/22/20 14:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/20/20 15:35	02/22/20 14:20	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/20/20 15:35	02/22/20 14:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/20/20 15:35	02/22/20 14:20	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/20/20 15:35	02/22/20 14:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/20/20 15:35	02/22/20 14:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/20/20 15:35	02/22/20 14:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/20/20 15:35	02/22/20 14:20	1

**Lab Sample ID: LCS 180-307719/2-A**  
**Matrix: Water**  
**Analysis Batch: 307889**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 307719**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.231		mg/L		92	80 - 120
Arsenic	1.00	0.831	^	mg/L		83	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-307719/2-A**  
**Matrix: Water**  
**Analysis Batch: 307889**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 307719**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.527		mg/L		105	80 - 120
Cadmium	0.500	0.526		mg/L		105	80 - 120
Chromium	0.500	0.439		mg/L		88	80 - 120
Cobalt	0.500	0.413		mg/L		83	80 - 120
Lead	0.500	0.515		mg/L		103	80 - 120
Lithium	0.500	0.497		mg/L		99	80 - 120
Molybdenum	0.500	0.473		mg/L		95	80 - 120
Selenium	1.00	0.958		mg/L		96	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120

**Lab Sample ID: 180-102366-C-1-C MS**  
**Matrix: Water**  
**Analysis Batch: 307889**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 307719**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.243		mg/L		97	75 - 125
Arsenic	<0.00031		1.00	0.839	^	mg/L		84	75 - 125
Barium	0.039		1.00	1.09		mg/L		105	75 - 125
Beryllium	<0.00018		0.500	0.542		mg/L		108	75 - 125
Cadmium	<0.00022		0.500	0.533		mg/L		107	75 - 125
Chromium	<0.0015		0.500	0.445		mg/L		89	75 - 125
Cobalt	0.00093		0.500	0.425		mg/L		85	75 - 125
Lead	<0.00013		0.500	0.523		mg/L		105	75 - 125
Lithium	0.039		0.500	0.544		mg/L		101	75 - 125
Molybdenum	<0.00061		0.500	0.479		mg/L		96	75 - 125
Selenium	<0.0015		1.00	0.979		mg/L		98	75 - 125
Thallium	0.00018	J	1.00	1.07		mg/L		107	75 - 125

**Lab Sample ID: 180-102366-C-1-D MSD**  
**Matrix: Water**  
**Analysis Batch: 307889**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 307719**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.245		mg/L		98	75 - 125	1	20
Arsenic	<0.00031		1.00	0.788	^	mg/L		79	75 - 125	6	20
Barium	0.039		1.00	1.10		mg/L		106	75 - 125	1	20
Beryllium	<0.00018		0.500	0.535		mg/L		107	75 - 125	1	20
Cadmium	<0.00022		0.500	0.542		mg/L		108	75 - 125	2	20
Chromium	<0.0015		0.500	0.428		mg/L		86	75 - 125	4	20
Cobalt	0.00093		0.500	0.403		mg/L		80	75 - 125	5	20
Lead	<0.00013		0.500	0.509		mg/L		102	75 - 125	3	20
Lithium	0.039		0.500	0.518		mg/L		96	75 - 125	5	20
Molybdenum	<0.00061		0.500	0.462		mg/L		92	75 - 125	4	20
Selenium	<0.0015		1.00	0.946		mg/L		95	75 - 125	3	20
Thallium	0.00018	J	1.00	1.05		mg/L		105	75 - 125	2	20

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-308465/1-A**  
**Matrix: Water**  
**Analysis Batch: 308600**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308465**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/28/20 10:39	02/29/20 14:06	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:06	1
Barium	<0.0016		0.010	0.0016	mg/L		02/28/20 10:39	02/29/20 14:06	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/28/20 10:39	02/29/20 14:06	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/28/20 10:39	02/29/20 14:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:06	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/28/20 10:39	02/29/20 14:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/28/20 10:39	02/29/20 14:06	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/28/20 10:39	02/29/20 14:06	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/28/20 10:39	02/29/20 14:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/28/20 10:39	02/29/20 14:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/28/20 10:39	02/29/20 14:06	1

**Lab Sample ID: LCS 180-308465/2-A**  
**Matrix: Water**  
**Analysis Batch: 308600**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308465**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.237		mg/L		95	80 - 120
Arsenic	1.00	0.990		mg/L		99	80 - 120
Barium	1.00	0.995		mg/L		100	80 - 120
Beryllium	0.500	0.491		mg/L		98	80 - 120
Cadmium	0.500	0.511		mg/L		102	80 - 120
Chromium	0.500	0.503		mg/L		101	80 - 120
Cobalt	0.500	0.489		mg/L		98	80 - 120
Lead	0.500	0.507		mg/L		101	80 - 120
Lithium	0.500	0.474		mg/L		95	80 - 120
Molybdenum	0.500	0.512		mg/L		102	80 - 120
Selenium	1.00	0.933		mg/L		93	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120

**Lab Sample ID: 180-102583-1 MS**  
**Matrix: Water**  
**Analysis Batch: 308600**

**Client Sample ID: SGWA-3**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308465**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.00038		0.250	0.237		mg/L		95	75 - 125
Arsenic	<0.00031		1.00	0.976		mg/L		98	75 - 125
Barium	0.040		1.00	1.05		mg/L		101	75 - 125
Beryllium	<0.00018		0.500	0.483		mg/L		97	75 - 125
Cadmium	<0.00022	^	0.500	0.510	^	mg/L		102	75 - 125
Chromium	0.020		0.500	0.529		mg/L		102	75 - 125
Cobalt	<0.00013		0.500	0.481		mg/L		96	75 - 125
Lead	<0.00013		0.500	0.510		mg/L		102	75 - 125
Lithium	<0.0034		0.500	0.501		mg/L		100	75 - 125
Molybdenum	<0.00061		0.500	0.502		mg/L		100	75 - 125
Selenium	<0.0015		1.00	0.937		mg/L		94	75 - 125
Thallium	0.00033	J	1.00	1.10		mg/L		110	75 - 125

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-102583-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 308600**

**Client Sample ID: SGWA-3**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308465**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony	<0.00038		0.250	0.233		mg/L		93	75 - 125	2	20
Arsenic	<0.00031		1.00	0.952		mg/L		95	75 - 125	3	20
Barium	0.040		1.00	1.02		mg/L		98	75 - 125	3	20
Beryllium	<0.00018		0.500	0.463		mg/L		93	75 - 125	4	20
Cadmium	<0.00022	^	0.500	0.495	^	mg/L		99	75 - 125	3	20
Chromium	0.020		0.500	0.506		mg/L		97	75 - 125	4	20
Cobalt	<0.00013		0.500	0.467		mg/L		93	75 - 125	3	20
Lead	<0.00013		0.500	0.495		mg/L		99	75 - 125	3	20
Lithium	<0.0034		0.500	0.461		mg/L		92	75 - 125	8	20
Molybdenum	<0.00061		0.500	0.493		mg/L		99	75 - 125	2	20
Selenium	<0.0015		1.00	0.897		mg/L		90	75 - 125	4	20
Thallium	0.00033	J	1.00	1.07		mg/L		107	75 - 125	2	20

**Lab Sample ID: MB 180-308652/1-A**  
**Matrix: Water**  
**Analysis Batch: 308973**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00038		0.0020	0.00038	mg/L		03/02/20 12:52	03/04/20 13:55	1
Barium	<0.0016		0.010	0.0016	mg/L		03/02/20 12:52	03/04/20 13:55	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/02/20 12:52	03/04/20 13:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/02/20 12:52	03/04/20 13:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 13:55	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/02/20 12:52	03/04/20 13:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/02/20 12:52	03/04/20 13:55	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/02/20 12:52	03/04/20 13:55	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/02/20 12:52	03/04/20 13:55	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/02/20 12:52	03/04/20 13:55	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/02/20 12:52	03/04/20 13:55	1

**Lab Sample ID: MB 180-308652/1-A**  
**Matrix: Water**  
**Analysis Batch: 309083**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/02/20 12:52	03/05/20 09:51	1

**Lab Sample ID: LCS 180-308652/2-A**  
**Matrix: Water**  
**Analysis Batch: 308973**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Barium	1.00	0.992		mg/L		99	80 - 120	
Beryllium	0.500	0.480		mg/L		96	80 - 120	
Cadmium	0.500	0.525		mg/L		105	80 - 120	
Chromium	0.500	0.523		mg/L		105	80 - 120	
Cobalt	0.500	0.492		mg/L		98	80 - 120	
Lead	0.500	0.517		mg/L		103	80 - 120	

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-308652/2-A**  
**Matrix: Water**  
**Analysis Batch: 308973**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.492		mg/L		98	80 - 120
Molybdenum	0.500	0.527		mg/L		105	80 - 120
Selenium	1.00	0.883		mg/L		88	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

**Lab Sample ID: LCS 180-308652/2-A**  
**Matrix: Water**  
**Analysis Batch: 309083**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.08		mg/L		108	80 - 120

**Lab Sample ID: 180-102681-1 MS**  
**Matrix: Water**  
**Analysis Batch: 308973**

**Client Sample ID: SGWC-9**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.249		mg/L		100	75 - 125
Barium	0.065		1.00	1.06		mg/L		100	75 - 125
Beryllium	<0.00018		0.500	0.482		mg/L		96	75 - 125
Cadmium	<0.00022		0.500	0.520		mg/L		104	75 - 125
Chromium	<0.0015		0.500	0.512		mg/L		102	75 - 125
Cobalt	0.0082		0.500	0.499		mg/L		98	75 - 125
Lead	<0.00013		0.500	0.505		mg/L		101	75 - 125
Lithium	<0.0034		0.500	0.505		mg/L		101	75 - 125
Molybdenum	0.00063	J	0.500	0.530		mg/L		106	75 - 125
Selenium	<0.0015		1.00	0.897		mg/L		90	75 - 125
Thallium	0.00027	J	1.00	1.05		mg/L		104	75 - 125

**Lab Sample ID: 180-102681-1 MS**  
**Matrix: Water**  
**Analysis Batch: 309083**

**Client Sample ID: SGWC-9**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00039	J	1.00	1.08		mg/L		108	75 - 125

**Lab Sample ID: 180-102681-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 308973**

**Client Sample ID: SGWC-9**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.252		mg/L		101	75 - 125	1	20
Barium	0.065		1.00	1.09		mg/L		102	75 - 125	2	20
Beryllium	<0.00018		0.500	0.488		mg/L		98	75 - 125	1	20
Cadmium	<0.00022		0.500	0.528		mg/L		106	75 - 125	2	20
Chromium	<0.0015		0.500	0.520		mg/L		104	75 - 125	2	20
Cobalt	0.0082		0.500	0.502		mg/L		99	75 - 125	0	20
Lead	<0.00013		0.500	0.509		mg/L		102	75 - 125	1	20
Lithium	<0.0034		0.500	0.510		mg/L		102	75 - 125	1	20
Molybdenum	0.00063	J	0.500	0.534		mg/L		107	75 - 125	1	20

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-102681-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 308973**

**Client Sample ID: SGWC-9**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	<0.0015		1.00	0.890		mg/L		89	75 - 125	1	20
Thallium	0.00027	J	1.00	1.05		mg/L		105	75 - 125	1	20

**Lab Sample ID: 180-102681-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 309083**

**Client Sample ID: SGWC-9**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00039	J	1.00	1.10		mg/L		110	75 - 125	2	20

**Lab Sample ID: MB 180-308788/1-A**  
**Matrix: Water**  
**Analysis Batch: 309083**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308788**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/03/20 13:06	03/05/20 13:01	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/03/20 13:06	03/05/20 13:01	1
Barium	<0.0016		0.010	0.0016	mg/L		03/03/20 13:06	03/05/20 13:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/03/20 13:06	03/05/20 13:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/03/20 13:06	03/05/20 13:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/03/20 13:06	03/05/20 13:01	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/03/20 13:06	03/05/20 13:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/03/20 13:06	03/05/20 13:01	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/03/20 13:06	03/05/20 13:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/03/20 13:06	03/05/20 13:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/03/20 13:06	03/05/20 13:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/03/20 13:06	03/05/20 13:01	1

**Lab Sample ID: LCS 180-308788/2-A**  
**Matrix: Water**  
**Analysis Batch: 309083**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308788**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.238		mg/L		95	80 - 120
Barium	1.00	0.998		mg/L		100	80 - 120
Beryllium	0.500	0.491		mg/L		98	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Chromium	0.500	0.493		mg/L		99	80 - 120
Cobalt	0.500	0.469		mg/L		94	80 - 120
Lead	0.500	0.493		mg/L		99	80 - 120
Lithium	0.500	0.498		mg/L		100	80 - 120
Molybdenum	0.500	0.500		mg/L		100	80 - 120
Selenium	1.00	0.887		mg/L		89	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120



# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-102682-E-9-C MS**  
**Matrix: Water**  
**Analysis Batch: 309083**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308788**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.00038		0.250	0.235		mg/L		94	75 - 125
Arsenic	<0.00031		1.00	1.15		mg/L		115	75 - 125
Barium	0.032		1.00	1.06		mg/L		103	75 - 125
Beryllium	<0.00018		0.500	0.487		mg/L		97	75 - 125
Cadmium	<0.00022		0.500	0.538		mg/L		108	75 - 125
Chromium	0.0058		0.500	0.530		mg/L		105	75 - 125
Cobalt	0.0016		0.500	0.431		mg/L		86	75 - 125
Lead	<0.00013		0.500	0.489		mg/L		98	75 - 125
Lithium	<0.0034		0.500	0.454		mg/L		91	75 - 125
Molybdenum	<0.00061		0.500	0.511		mg/L		102	75 - 125
Selenium	0.0053		1.00	0.846		mg/L		84	75 - 125
Thallium	0.00034	J	1.00	1.02		mg/L		102	75 - 125

**Lab Sample ID: 180-102682-E-9-D MSD**  
**Matrix: Water**  
**Analysis Batch: 309083**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 308788**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.00038		0.250	0.236		mg/L		94	75 - 125	0	20
Arsenic	<0.00031		1.00	1.08		mg/L		108	75 - 125	7	20
Barium	0.032		1.00	1.05		mg/L		102	75 - 125	1	20
Beryllium	<0.00018		0.500	0.471		mg/L		94	75 - 125	3	20
Cadmium	<0.00022		0.500	0.533		mg/L		107	75 - 125	1	20
Chromium	0.0058		0.500	0.512		mg/L		101	75 - 125	3	20
Cobalt	0.0016		0.500	0.434		mg/L		86	75 - 125	1	20
Lead	<0.00013		0.500	0.492		mg/L		98	75 - 125	1	20
Lithium	<0.0034		0.500	0.450		mg/L		90	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.510		mg/L		102	75 - 125	0	20
Selenium	0.0053		1.00	0.819		mg/L		81	75 - 125	3	20
Thallium	0.00034	J	1.00	1.03		mg/L		103	75 - 125	1	20

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-308138/1-A**  
**Matrix: Water**  
**Analysis Batch: 308273**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 308138**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/25/20 15:56	02/26/20 16:37	1

**Lab Sample ID: LCS 180-308138/2-A**  
**Matrix: Water**  
**Analysis Batch: 308273**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 308138**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00265		mg/L		106	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: MB 180-308375/1-A**  
**Matrix: Water**  
**Analysis Batch: 308531**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 308375**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:43	02/28/20 13:37	1

**Lab Sample ID: LCS 180-308375/2-A**  
**Matrix: Water**  
**Analysis Batch: 308531**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 308375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00261		mg/L		104	80 - 120

**Lab Sample ID: 180-102778-F-2-C MS**  
**Matrix: Water**  
**Analysis Batch: 308531**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 308375**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000976		mg/L		98	75 - 125

**Lab Sample ID: 180-102778-F-2-D MSD**  
**Matrix: Water**  
**Analysis Batch: 308531**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 308375**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.00108		mg/L		108	75 - 125	10	20

**Lab Sample ID: MB 180-308376/1-A**  
**Matrix: Water**  
**Analysis Batch: 308531**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 308376**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/27/20 14:46	02/28/20 14:29	1

**Lab Sample ID: LCS 180-308376/2-A**  
**Matrix: Water**  
**Analysis Batch: 308531**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 308376**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

**Lab Sample ID: 180-102585-B-1-C MS**  
**Matrix: Water**  
**Analysis Batch: 308531**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 308376**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.00102		mg/L		102	75 - 125

**Lab Sample ID: 180-102585-B-1-D MSD**  
**Matrix: Water**  
**Analysis Batch: 308531**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 308376**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000983		mg/L		98	75 - 125	4	20

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-308533/1-A**  
**Matrix: Water**  
**Analysis Batch: 308671**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 308533**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000155	J	0.00020	0.00010	mg/L	-	02/28/20 16:28	03/02/20 13:32	1

**Lab Sample ID: LCS 180-308533/2-A**  
**Matrix: Water**  
**Analysis Batch: 308671**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 308533**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00266		mg/L	-	106	80 - 120

**Lab Sample ID: 180-102506-C-2-E MS**  
**Matrix: Water**  
**Analysis Batch: 308671**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 308533**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.00108		mg/L	-	108	75 - 125

**Lab Sample ID: 180-102506-C-2-F MSD**  
**Matrix: Water**  
**Analysis Batch: 308671**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 308533**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.00113		mg/L	-	113	75 - 125	5	20

**Lab Sample ID: MB 180-308534/1-A**  
**Matrix: Water**  
**Analysis Batch: 308671**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 308534**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L	-	02/28/20 16:30	03/02/20 13:59	1

**Lab Sample ID: LCS 180-308534/2-A**  
**Matrix: Water**  
**Analysis Batch: 308671**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 308534**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00278		mg/L	-	111	80 - 120

**Lab Sample ID: 180-102683-2 MS**  
**Matrix: Water**  
**Analysis Batch: 308671**

**Client Sample ID: FD-3 (AP)**  
**Prep Type: Total/NA**  
**Prep Batch: 308534**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00023		0.00100	0.00127		mg/L	-	104	75 - 125

**Lab Sample ID: 180-102683-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 308671**

**Client Sample ID: FD-3 (AP)**  
**Prep Type: Total/NA**  
**Prep Batch: 308534**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00023		0.00100	0.00128		mg/L	-	105	75 - 125	1	20

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-308664/1-A  
Matrix: Water  
Analysis Batch: 308803

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 308664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/02/20 14:10	03/03/20 13:13	1

Lab Sample ID: LCS 180-308664/2-A  
Matrix: Water  
Analysis Batch: 308803

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 308664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00270		mg/L		108	80 - 120

Lab Sample ID: 180-102919-C-33-E MS  
Matrix: Water  
Analysis Batch: 308803

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 308664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.00110		mg/L		110	75 - 125

Lab Sample ID: 180-102919-C-33-F MSD  
Matrix: Water  
Analysis Batch: 308803

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 308664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.00111		mg/L		111	75 - 125	1	20

Lab Sample ID: 180-102064-E-21-C MS  
Matrix: Water  
Analysis Batch: 308273

Client Sample ID: Matrix Spike  
Prep Type: Dissolved  
Prep Batch: 308138

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000920		mg/L		92	75 - 125

Lab Sample ID: 180-102064-E-21-D MSD  
Matrix: Water  
Analysis Batch: 308273

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Dissolved  
Prep Batch: 308138

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000882		mg/L		88	75 - 125	4	20

## Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-460927/19-A  
Matrix: Water  
Analysis Batch: 464171

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 460927

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.006335	U	0.0513	0.0513	1.00	0.108	pCi/L	02/19/20 07:14	03/12/20 11:51	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110	02/19/20 07:14	03/12/20 11:51	1

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: 9315 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-460927/1-A**  
**Matrix: Water**  
**Analysis Batch: 464171**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 460927**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	11.3	9.727		1.03	1.00	0.123	pCi/L	86	75 - 125		
<b>Carrier</b>	<b>%Yield</b>	<b>LCS Qualifier</b>	<b>Limits</b>								
Ba Carrier	100		40 - 110								

**Lab Sample ID: 160-37252-C-2-A MS**  
**Matrix: Water**  
**Analysis Batch: 464171**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 460927**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-226	0.110		11.3	9.972		1.05	1.00	0.106	pCi/L	87	75 - 138	
<b>Carrier</b>	<b>%Yield</b>	<b>MS Qualifier</b>	<b>Limits</b>									
Ba Carrier	96.9		40 - 110									

**Lab Sample ID: 160-37252-C-2-B MSD**  
**Matrix: Water**  
**Analysis Batch: 464171**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 460927**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
Radium-226	0.110		11.3	9.648		1.04	1.00	0.146	pCi/L	84	75 - 138	0.15	1	
<b>Carrier</b>	<b>%Yield</b>	<b>MSD Qualifier</b>	<b>Limits</b>											
Ba Carrier	94.2		40 - 110											

**Lab Sample ID: MB 160-461560/13-A**  
**Matrix: Water**  
**Analysis Batch: 464479**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 461560**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
											Radium-226
<b>Carrier</b>	<b>%Yield</b>	<b>MB Qualifier</b>	<b>Limits</b>								
Ba Carrier	103		40 - 110								
								<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
								02/24/20 07:26	03/17/20 11:30	1	

**Lab Sample ID: LCS 160-461560/1-A**  
**Matrix: Water**  
**Analysis Batch: 464479**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 461560**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-226	11.3	8.762		0.946	1.00	0.127	pCi/L	77	75 - 125	

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: 9315 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-461560/1-A**  
**Matrix: Water**  
**Analysis Batch: 464479**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 461560**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		40 - 110

**Lab Sample ID: 180-102586-B-1-B DU**  
**Matrix: Water**  
**Analysis Batch: 464479**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 461560**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	0.0470	U	0.05837	U	0.0790	1.00	0.132	pCi/L	0.08	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	103		40 - 110

**Lab Sample ID: MB 160-461603/21-A**  
**Matrix: Water**  
**Analysis Batch: 464533**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 461603**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								Prepared	Analyzed	Prepared	Analyzed	
Radium-226	0.01139	U	0.0567	0.0567	1.00	0.108	pCi/L	02/24/20 11:42	03/17/20 09:25			1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110	02/24/20 11:42	03/17/20 09:25	1

**Lab Sample ID: LCS 160-461603/1-A**  
**Matrix: Water**  
**Analysis Batch: 464533**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 461603**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec. Limits	
								%Rec	Limits
Radium-226	11.3	9.587		0.946	1.00	0.0491	pCi/L	84	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.2		40 - 110

**Lab Sample ID: LCSD 160-461603/2-A**  
**Matrix: Water**  
**Analysis Batch: 464533**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 461603**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec. Limits		RER	Limit
								%Rec	Limits	RER	Limit
Radium-226	11.3	8.956		0.889	1.00	0.0640	pCi/L	79	75 - 125	0.34	1

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.2		40 - 110

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: 9315 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: MB 160-461863/21-A**  
**Matrix: Water**  
**Analysis Batch: 464940**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 461863**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05891	U	0.134	0.134	1.00	0.240	pCi/L	02/26/20 08:43	03/19/20 07:48	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	102		40 - 110					02/26/20 08:43	03/19/20 07:48	1

**Lab Sample ID: LCS 160-461863/1-A**  
**Matrix: Water**  
**Analysis Batch: 464940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 461863**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.801		1.14	1.00	0.220	pCi/L	86	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	100		40 - 110					02/26/20 08:43	03/19/20 07:48

**Lab Sample ID: LCSD 160-461863/2-A**  
**Matrix: Water**  
**Analysis Batch: 464940**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 461863**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	9.549		1.12	1.00	0.201	pCi/L	84	75 - 125	0.11	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	101		40 - 110					02/19/20 07:43	03/05/20 18:25	1	

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-460931/19-A**  
**Matrix: Water**  
**Analysis Batch: 463229**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 460931**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.04488	U	0.219	0.219	1.00	0.397	pCi/L	02/19/20 07:43	03/05/20 18:25	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	105		40 - 110					02/19/20 07:43	03/05/20 18:25	1
Y Carrier	86.4		40 - 110		02/19/20 07:43	03/05/20 18:25	1			

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-460931/1-A**  
**Matrix: Water**  
**Analysis Batch: 463181**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 460931**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.05	7.797		0.939	1.00	0.384	pCi/L	86	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	86.4		40 - 110

**Lab Sample ID: 160-37252-C-2-C MS**  
**Matrix: Water**  
**Analysis Batch: 463181**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 460931**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	-0.0178	U	9.04	7.703		0.936	1.00	0.394	pCi/L	85	45 - 150

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	96.9		40 - 110
Y Carrier	86.7		40 - 110

**Lab Sample ID: 160-37252-C-2-D MSD**  
**Matrix: Water**  
**Analysis Batch: 463181**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 460931**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	-0.0178	U	9.04	7.021		0.885	1.00	0.359	pCi/L	78	45 - 150	0.37	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	94.2		40 - 110
Y Carrier	85.2		40 - 110

**Lab Sample ID: MB 160-461564/13-A**  
**Matrix: Water**  
**Analysis Batch: 464148**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 461564**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.04609	U	0.204	0.204	1.00	0.361	pCi/L	02/24/20 07:36	03/11/20 17:38	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110	02/24/20 07:36	03/11/20 17:38	1
Y Carrier	81.9		40 - 110	02/24/20 07:36	03/11/20 17:38	1

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# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-461564/1-A**  
**Matrix: Water**  
**Analysis Batch: 464148**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 461564**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.03	8.795		1.04	1.00	0.441	pCi/L	97	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	102		40 - 110
Y Carrier	87.1		40 - 110

**Lab Sample ID: 180-102586-B-1-D DU**  
**Matrix: Water**  
**Analysis Batch: 464148**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 461564**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.227	U	0.1771	U	0.236	1.00	0.392	pCi/L	0.11	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	103		40 - 110
Y Carrier	86.0		40 - 110

**Lab Sample ID: MB 160-461608/21-A**  
**Matrix: Water**  
**Analysis Batch: 463807**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 461608**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.09056	U	0.221	0.221	1.00	0.381	pCi/L	02/24/20 12:00	03/11/20 17:27	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110	02/24/20 12:00	03/11/20 17:27	1
Y Carrier	93.8		40 - 110	02/24/20 12:00	03/11/20 17:27	1

**Lab Sample ID: LCS 160-461608/1-A**  
**Matrix: Water**  
**Analysis Batch: 463812**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 461608**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.03	8.239		0.968	1.00	0.349	pCi/L	91	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	97.2		40 - 110
Y Carrier	92.3		40 - 110

# QC Sample Results

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCSD 160-461608/2-A**  
**Matrix: Water**  
**Analysis Batch: 463812**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 461608**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.24	1	
Radium-228	9.03	7.786		0.922	1.00	0.365	pCi/L	86	75 - 125	0.24		1
<b>Carrier</b>		<b>LCSD %Yield</b>	<b>LCSD Qualifier</b>	<b>Limits</b>								
Ba Carrier		98.2		40 - 110								
Y Carrier		93.8		40 - 110								

**Lab Sample ID: MB 160-461869/21-A**  
**Matrix: Water**  
**Analysis Batch: 464628**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 461869**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228										
<b>Carrier</b>		<b>MB %Yield</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier		102		40 - 110				02/26/20 08:58	03/17/20 18:11	1
Y Carrier		89.3		40 - 110				02/26/20 08:58	03/17/20 18:11	1

**Lab Sample ID: LCS 160-461869/1-A**  
**Matrix: Water**  
**Analysis Batch: 464477**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 461869**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75 - 125	
Radium-228	9.01	8.360		1.01	1.00	0.443	pCi/L	93	75 - 125	
<b>Carrier</b>		<b>LCS %Yield</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
Ba Carrier		100		40 - 110						
Y Carrier		81.9		40 - 110						

**Lab Sample ID: LCSD 160-461869/2-A**  
**Matrix: Water**  
**Analysis Batch: 464477**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 461869**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.23	1	
Radium-228	9.01	8.833		1.07	1.00	0.490	pCi/L	98	75 - 125	0.23		1
<b>Carrier</b>		<b>LCSD %Yield</b>	<b>LCSD Qualifier</b>	<b>Limits</b>								
Ba Carrier		101		40 - 110								
Y Carrier		81.9		40 - 110								

# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## HPLC/IC

### Analysis Batch: 307848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102430-1	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-102430-2	SGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-102430-3	SGWA-24	Total/NA	Water	EPA 300.0 R2.1	
MB 180-307848/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-307848/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102430-1 MS	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-102430-1 MSD	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 308729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1	SGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-102583-2	SGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-102583-3	SGWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-102583-4	SGWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-102583-5	SGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-102583-6	SGWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-102583-7	SGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-102583-8	SGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-102583-9	SGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-102583-10	SGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-102583-11	FB-1 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-102583-12	FD-1 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-102587-1	SGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-102587-2	SGWA-25	Total/NA	Water	EPA 300.0 R2.1	
MB 180-308729/18	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-308729/17	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102583-1 MS	SGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-102583-1 MSD	SGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-102587-1 MS	SGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-102587-1 MSD	SGWA-5	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 308868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-102681-2	SGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-102681-3	SGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-102681-4	SGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-102681-5	SGWC-14	Total/NA	Water	EPA 300.0 R2.1	
180-102681-6	SGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-102681-7	SGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-102681-8	SGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-102681-9	SGWC19	Total/NA	Water	EPA 300.0 R2.1	
180-102681-10	FD-2(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-102681-11	FB-2(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-102681-12	EB-1(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-102681-13	EB-2(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-102681-14	EB-3(AP)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-308868/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-308868/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102681-3 MS	SGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-102681-3 MSD	SGWC-12	Total/NA	Water	EPA 300.0 R2.1	

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# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## HPLC/IC (Continued)

### Analysis Batch: 308868 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-7 MS	SGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-102681-7 MSD	SGWC-16	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 309066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102683-1	SGWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-102683-2	FD-3 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-102683-3	FB-3 (AP)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-309066/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-309066/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102787-B-5 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-102787-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 307719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102430-1	SGWA-1	Total Recoverable	Water	3005A	
180-102430-2	SGWA-2	Total Recoverable	Water	3005A	
180-102430-3	SGWA-24	Total Recoverable	Water	3005A	
MB 180-307719/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-307719/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-102366-C-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
180-102366-C-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Analysis Batch: 307889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102430-1	SGWA-1	Total Recoverable	Water	EPA 6020B	307719
180-102430-2	SGWA-2	Total Recoverable	Water	EPA 6020B	307719
180-102430-3	SGWA-24	Total Recoverable	Water	EPA 6020B	307719
MB 180-307719/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	307719
LCS 180-307719/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	307719
180-102366-C-1-C MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	307719
180-102366-C-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	307719

### Prep Batch: 308138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102430-1	SGWA-1	Total/NA	Water	7470A	
180-102430-2	SGWA-2	Total/NA	Water	7470A	
180-102430-3	SGWA-24	Total/NA	Water	7470A	
MB 180-308138/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-308138/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102064-E-21-C MS	Matrix Spike	Dissolved	Water	7470A	
180-102064-E-21-D MSD	Matrix Spike Duplicate	Dissolved	Water	7470A	

### Analysis Batch: 308273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102430-1	SGWA-1	Total/NA	Water	EPA 7470A	308138
180-102430-2	SGWA-2	Total/NA	Water	EPA 7470A	308138
180-102430-3	SGWA-24	Total/NA	Water	EPA 7470A	308138
MB 180-308138/1-A	Method Blank	Total/NA	Water	EPA 7470A	308138

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# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Metals (Continued)

### Analysis Batch: 308273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-308138/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	308138
180-102064-E-21-C MS	Matrix Spike	Dissolved	Water	EPA 7470A	308138
180-102064-E-21-D MSD	Matrix Spike Duplicate	Dissolved	Water	EPA 7470A	308138

### Prep Batch: 308375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1	SGWA-3	Total/NA	Water	7470A	
180-102583-2	SGWA-4	Total/NA	Water	7470A	
180-102583-3	SGWC-6	Total/NA	Water	7470A	
180-102583-4	SGWC-7	Total/NA	Water	7470A	
180-102583-5	SGWC-8	Total/NA	Water	7470A	
MB 180-308375/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-308375/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102778-F-2-C MS	Matrix Spike	Total/NA	Water	7470A	
180-102778-F-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

### Prep Batch: 308376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-6	SGWC-11	Total/NA	Water	7470A	
180-102583-7	SGWC-20	Total/NA	Water	7470A	
180-102583-8	SGWC-21	Total/NA	Water	7470A	
180-102583-9	SGWC-22	Total/NA	Water	7470A	
180-102583-10	SGWC-23	Total/NA	Water	7470A	
180-102583-11	FB-1 (AP)	Total/NA	Water	7470A	
180-102583-12	FD-1 (AP)	Total/NA	Water	7470A	
180-102587-1	SGWA-5	Total/NA	Water	7470A	
180-102587-2	SGWA-25	Total/NA	Water	7470A	
MB 180-308376/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-308376/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102585-B-1-C MS	Matrix Spike	Total/NA	Water	7470A	
180-102585-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

### Prep Batch: 308465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1	SGWA-3	Total Recoverable	Water	3005A	
180-102583-2	SGWA-4	Total Recoverable	Water	3005A	
180-102583-3	SGWC-6	Total Recoverable	Water	3005A	
180-102583-4	SGWC-7	Total Recoverable	Water	3005A	
180-102583-5	SGWC-8	Total Recoverable	Water	3005A	
180-102583-6	SGWC-11	Total Recoverable	Water	3005A	
180-102583-7	SGWC-20	Total Recoverable	Water	3005A	
180-102583-8	SGWC-21	Total Recoverable	Water	3005A	
180-102583-9	SGWC-22	Total Recoverable	Water	3005A	
180-102583-10	SGWC-23	Total Recoverable	Water	3005A	
180-102583-11	FB-1 (AP)	Total Recoverable	Water	3005A	
180-102583-12	FD-1 (AP)	Total Recoverable	Water	3005A	
180-102587-1	SGWA-5	Total Recoverable	Water	3005A	
180-102587-2	SGWA-25	Total Recoverable	Water	3005A	
MB 180-308465/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-308465/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-102583-1 MS	SGWA-3	Total Recoverable	Water	3005A	

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# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Metals (Continued)

### Prep Batch: 308465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1 MSD	SGWA-3	Total Recoverable	Water	3005A	

### Analysis Batch: 308531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1	SGWA-3	Total/NA	Water	EPA 7470A	308375
180-102583-2	SGWA-4	Total/NA	Water	EPA 7470A	308375
180-102583-3	SGWC-6	Total/NA	Water	EPA 7470A	308375
180-102583-4	SGWC-7	Total/NA	Water	EPA 7470A	308375
180-102583-5	SGWC-8	Total/NA	Water	EPA 7470A	308375
180-102583-6	SGWC-11	Total/NA	Water	EPA 7470A	308376
180-102583-7	SGWC-20	Total/NA	Water	EPA 7470A	308376
180-102583-8	SGWC-21	Total/NA	Water	EPA 7470A	308376
180-102583-9	SGWC-22	Total/NA	Water	EPA 7470A	308376
180-102583-10	SGWC-23	Total/NA	Water	EPA 7470A	308376
180-102583-11	FB-1 (AP)	Total/NA	Water	EPA 7470A	308376
180-102583-12	FD-1 (AP)	Total/NA	Water	EPA 7470A	308376
180-102587-1	SGWA-5	Total/NA	Water	EPA 7470A	308376
180-102587-2	SGWA-25	Total/NA	Water	EPA 7470A	308376
MB 180-308375/1-A	Method Blank	Total/NA	Water	EPA 7470A	308375
MB 180-308376/1-A	Method Blank	Total/NA	Water	EPA 7470A	308376
LCS 180-308375/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	308375
LCS 180-308376/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	308376
180-102585-B-1-C MS	Matrix Spike	Total/NA	Water	EPA 7470A	308376
180-102585-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	308376
180-102778-F-2-C MS	Matrix Spike	Total/NA	Water	EPA 7470A	308375
180-102778-F-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	308375

### Prep Batch: 308533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total/NA	Water	7470A	
180-102681-2	SGWC-10	Total/NA	Water	7470A	
180-102681-3	SGWC-12	Total/NA	Water	7470A	
180-102681-4	SGWC-13	Total/NA	Water	7470A	
180-102681-5	SGWC-14	Total/NA	Water	7470A	
180-102681-6	SGWC-15	Total/NA	Water	7470A	
180-102681-7	SGWC-16	Total/NA	Water	7470A	
MB 180-308533/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-308533/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102506-C-2-E MS	Matrix Spike	Total/NA	Water	7470A	
180-102506-C-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

### Prep Batch: 308534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-8	SGWC-17	Total/NA	Water	7470A	
180-102681-9	SGWC-19	Total/NA	Water	7470A	
180-102681-10	FD-2(AP)	Total/NA	Water	7470A	
180-102681-11	FB-2(AP)	Total/NA	Water	7470A	
180-102681-12	EB-1(AP)	Total/NA	Water	7470A	
180-102681-13	EB-2(AP)	Total/NA	Water	7470A	
180-102681-14	EB-3(AP)	Total/NA	Water	7470A	
180-102683-1	SGWC-18	Total/NA	Water	7470A	

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# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Metals (Continued)

### Prep Batch: 308534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102683-2	FD-3 (AP)	Total/NA	Water	7470A	
MB 180-308534/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-308534/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102683-2 MS	FD-3 (AP)	Total/NA	Water	7470A	
180-102683-2 MSD	FD-3 (AP)	Total/NA	Water	7470A	

### Analysis Batch: 308600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1	SGWA-3	Total Recoverable	Water	EPA 6020B	308465
180-102583-2	SGWA-4	Total Recoverable	Water	EPA 6020B	308465
180-102583-3	SGWC-6	Total Recoverable	Water	EPA 6020B	308465
180-102583-4	SGWC-7	Total Recoverable	Water	EPA 6020B	308465
180-102583-5	SGWC-8	Total Recoverable	Water	EPA 6020B	308465
180-102583-6	SGWC-11	Total Recoverable	Water	EPA 6020B	308465
180-102583-7	SGWC-20	Total Recoverable	Water	EPA 6020B	308465
180-102583-8	SGWC-21	Total Recoverable	Water	EPA 6020B	308465
180-102583-9	SGWC-22	Total Recoverable	Water	EPA 6020B	308465
180-102583-10	SGWC-23	Total Recoverable	Water	EPA 6020B	308465
180-102583-11	FB-1 (AP)	Total Recoverable	Water	EPA 6020B	308465
180-102583-12	FD-1 (AP)	Total Recoverable	Water	EPA 6020B	308465
180-102587-1	SGWA-5	Total Recoverable	Water	EPA 6020B	308465
180-102587-2	SGWA-25	Total Recoverable	Water	EPA 6020B	308465
MB 180-308465/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	308465
LCS 180-308465/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	308465
180-102583-1 MS	SGWA-3	Total Recoverable	Water	EPA 6020B	308465
180-102583-1 MSD	SGWA-3	Total Recoverable	Water	EPA 6020B	308465

### Prep Batch: 308652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total Recoverable	Water	3005A	
180-102681-2	SGWC-10	Total Recoverable	Water	3005A	
180-102681-3	SGWC-12	Total Recoverable	Water	3005A	
180-102681-4	SGWC-13	Total Recoverable	Water	3005A	
180-102681-5	SGWC-14	Total Recoverable	Water	3005A	
180-102681-6	SGWC-15	Total Recoverable	Water	3005A	
180-102681-7	SGWC-16	Total Recoverable	Water	3005A	
180-102681-8	SGWC-17	Total Recoverable	Water	3005A	
180-102681-9	SGWC-19	Total Recoverable	Water	3005A	
180-102681-10	FD-2(AP)	Total Recoverable	Water	3005A	
180-102681-11	FB-2(AP)	Total Recoverable	Water	3005A	
180-102681-12	EB-1(AP)	Total Recoverable	Water	3005A	
180-102681-13	EB-2(AP)	Total Recoverable	Water	3005A	
180-102681-14	EB-3(AP)	Total Recoverable	Water	3005A	
MB 180-308652/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-308652/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-102681-1 MS	SGWC-9	Total Recoverable	Water	3005A	
180-102681-1 MSD	SGWC-9	Total Recoverable	Water	3005A	

### Prep Batch: 308664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102683-3	FB-3 (AP)	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Metals (Continued)

### Prep Batch: 308664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-308664/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-308664/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102919-C-33-E MS	Matrix Spike	Total/NA	Water	7470A	
180-102919-C-33-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

### Analysis Batch: 308671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total/NA	Water	EPA 7470A	308533
180-102681-2	SGWC-10	Total/NA	Water	EPA 7470A	308533
180-102681-3	SGWC-12	Total/NA	Water	EPA 7470A	308533
180-102681-4	SGWC-13	Total/NA	Water	EPA 7470A	308533
180-102681-5	SGWC-14	Total/NA	Water	EPA 7470A	308533
180-102681-6	SGWC-15	Total/NA	Water	EPA 7470A	308533
180-102681-7	SGWC-16	Total/NA	Water	EPA 7470A	308533
180-102681-8	SGWC-17	Total/NA	Water	EPA 7470A	308534
180-102681-9	SGWC19	Total/NA	Water	EPA 7470A	308534
180-102681-10	FD-2(AP)	Total/NA	Water	EPA 7470A	308534
180-102681-11	FB-2(AP)	Total/NA	Water	EPA 7470A	308534
180-102681-12	EB-1(AP)	Total/NA	Water	EPA 7470A	308534
180-102681-13	EB-2(AP)	Total/NA	Water	EPA 7470A	308534
180-102681-14	EB-3(AP)	Total/NA	Water	EPA 7470A	308534
180-102683-1	SGWC-18	Total/NA	Water	EPA 7470A	308534
180-102683-2	FD-3 (AP)	Total/NA	Water	EPA 7470A	308534
MB 180-308533/1-A	Method Blank	Total/NA	Water	EPA 7470A	308533
MB 180-308534/1-A	Method Blank	Total/NA	Water	EPA 7470A	308534
LCS 180-308533/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	308533
LCS 180-308534/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	308534
180-102506-C-2-E MS	Matrix Spike	Total/NA	Water	EPA 7470A	308533
180-102506-C-2-F MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	308533
180-102683-2 MS	FD-3 (AP)	Total/NA	Water	EPA 7470A	308534
180-102683-2 MSD	FD-3 (AP)	Total/NA	Water	EPA 7470A	308534

### Prep Batch: 308788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102683-1	SGWC-18	Total Recoverable	Water	3005A	
180-102683-2	FD-3 (AP)	Total Recoverable	Water	3005A	
180-102683-3	FB-3 (AP)	Total Recoverable	Water	3005A	
MB 180-308788/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-308788/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-102682-E-9-C MS	Matrix Spike	Total Recoverable	Water	3005A	
180-102682-E-9-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Analysis Batch: 308803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102683-3	FB-3 (AP)	Total/NA	Water	EPA 7470A	308664
MB 180-308664/1-A	Method Blank	Total/NA	Water	EPA 7470A	308664
LCS 180-308664/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	308664
180-102919-C-33-E MS	Matrix Spike	Total/NA	Water	EPA 7470A	308664
180-102919-C-33-F MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	308664



# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Metals

### Analysis Batch: 308973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total Recoverable	Water	EPA 6020B	308652
180-102681-2	SGWC-10	Total Recoverable	Water	EPA 6020B	308652
180-102681-3	SGWC-12	Total Recoverable	Water	EPA 6020B	308652
180-102681-4	SGWC-13	Total Recoverable	Water	EPA 6020B	308652
180-102681-5	SGWC-14	Total Recoverable	Water	EPA 6020B	308652
180-102681-6	SGWC-15	Total Recoverable	Water	EPA 6020B	308652
180-102681-7	SGWC-16	Total Recoverable	Water	EPA 6020B	308652
180-102681-8	SGWC-17	Total Recoverable	Water	EPA 6020B	308652
180-102681-9	SGWC19	Total Recoverable	Water	EPA 6020B	308652
180-102681-10	FD-2(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102681-11	FB-2(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102681-12	EB-1(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102681-13	EB-2(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102681-14	EB-3(AP)	Total Recoverable	Water	EPA 6020B	308652
MB 180-308652/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	308652
LCS 180-308652/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	308652
180-102681-1 MS	SGWC-9	Total Recoverable	Water	EPA 6020B	308652
180-102681-1 MSD	SGWC-9	Total Recoverable	Water	EPA 6020B	308652

### Analysis Batch: 309083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total Recoverable	Water	EPA 6020B	308652
180-102681-2	SGWC-10	Total Recoverable	Water	EPA 6020B	308652
180-102681-3	SGWC-12	Total Recoverable	Water	EPA 6020B	308652
180-102681-4	SGWC-13	Total Recoverable	Water	EPA 6020B	308652
180-102681-5	SGWC-14	Total Recoverable	Water	EPA 6020B	308652
180-102681-6	SGWC-15	Total Recoverable	Water	EPA 6020B	308652
180-102681-7	SGWC-16	Total Recoverable	Water	EPA 6020B	308652
180-102681-8	SGWC-17	Total Recoverable	Water	EPA 6020B	308652
180-102681-9	SGWC19	Total Recoverable	Water	EPA 6020B	308652
180-102681-10	FD-2(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102681-11	FB-2(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102681-12	EB-1(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102681-13	EB-2(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102681-14	EB-3(AP)	Total Recoverable	Water	EPA 6020B	308652
180-102683-1	SGWC-18	Total Recoverable	Water	EPA 6020B	308788
180-102683-2	FD-3 (AP)	Total Recoverable	Water	EPA 6020B	308788
180-102683-3	FB-3 (AP)	Total Recoverable	Water	EPA 6020B	308788
MB 180-308652/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	308652
MB 180-308788/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	308788
LCS 180-308652/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	308652
LCS 180-308788/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	308788
180-102681-1 MS	SGWC-9	Total Recoverable	Water	EPA 6020B	308652
180-102681-1 MSD	SGWC-9	Total Recoverable	Water	EPA 6020B	308652
180-102682-E-9-C MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	308788
180-102682-E-9-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	308788

# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Rad

### Prep Batch: 460927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102430-1	SGWA-1	Total/NA	Water	PrecSep-21	
180-102430-2	SGWA-2	Total/NA	Water	PrecSep-21	
180-102430-3	SGWA-24	Total/NA	Water	PrecSep-21	
MB 160-460927/19-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-460927/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-37252-C-2-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
160-37252-C-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 460931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102430-1	SGWA-1	Total/NA	Water	PrecSep_0	
180-102430-2	SGWA-2	Total/NA	Water	PrecSep_0	
180-102430-3	SGWA-24	Total/NA	Water	PrecSep_0	
MB 160-460931/19-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-460931/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-37252-C-2-C MS	Matrix Spike	Total/NA	Water	PrecSep_0	
160-37252-C-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

### Prep Batch: 461560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102587-1	SGWA-5	Total/NA	Water	PrecSep-21	
180-102587-2	SGWA-25	Total/NA	Water	PrecSep-21	
MB 160-461560/13-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-461560/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-102586-B-1-B DU	Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 461564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102587-1	SGWA-5	Total/NA	Water	PrecSep_0	
180-102587-2	SGWA-25	Total/NA	Water	PrecSep_0	
MB 160-461564/13-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-461564/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-102586-B-1-D DU	Duplicate	Total/NA	Water	PrecSep_0	

### Prep Batch: 461603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1	SGWA-3	Total/NA	Water	PrecSep-21	
180-102583-2	SGWA-4	Total/NA	Water	PrecSep-21	
180-102583-3	SGWC-6	Total/NA	Water	PrecSep-21	
180-102583-4	SGWC-7	Total/NA	Water	PrecSep-21	
180-102583-5	SGWC-8	Total/NA	Water	PrecSep-21	
180-102583-6	SGWC-11	Total/NA	Water	PrecSep-21	
180-102583-7	SGWC-20	Total/NA	Water	PrecSep-21	
180-102583-8	SGWC-21	Total/NA	Water	PrecSep-21	
180-102583-9	SGWC-22	Total/NA	Water	PrecSep-21	
180-102583-10	SGWC-23	Total/NA	Water	PrecSep-21	
180-102583-11	FB-1 (AP)	Total/NA	Water	PrecSep-21	
180-102583-12	FD-1 (AP)	Total/NA	Water	PrecSep-21	
MB 160-461603/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-461603/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-461603/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Rad

### Prep Batch: 461608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1	SGWA-3	Total/NA	Water	PrecSep_0	
180-102583-2	SGWA-4	Total/NA	Water	PrecSep_0	
180-102583-3	SGWC-6	Total/NA	Water	PrecSep_0	
180-102583-4	SGWC-7	Total/NA	Water	PrecSep_0	
180-102583-5	SGWC-8	Total/NA	Water	PrecSep_0	
180-102583-6	SGWC-11	Total/NA	Water	PrecSep_0	
180-102583-7	SGWC-20	Total/NA	Water	PrecSep_0	
180-102583-8	SGWC-21	Total/NA	Water	PrecSep_0	
180-102583-9	SGWC-22	Total/NA	Water	PrecSep_0	
180-102583-10	SGWC-23	Total/NA	Water	PrecSep_0	
180-102583-11	FB-1 (AP)	Total/NA	Water	PrecSep_0	
180-102583-12	FD-1 (AP)	Total/NA	Water	PrecSep_0	
MB 160-461608/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-461608/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-461608/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

### Prep Batch: 461863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total/NA	Water	PrecSep-21	
180-102681-2	SGWC-10	Total/NA	Water	PrecSep-21	
180-102681-3	SGWC-12	Total/NA	Water	PrecSep-21	
180-102681-4	SGWC-13	Total/NA	Water	PrecSep-21	
180-102681-5	SGWC-14	Total/NA	Water	PrecSep-21	
180-102681-6	SGWC-15	Total/NA	Water	PrecSep-21	
180-102681-7	SGWC-16	Total/NA	Water	PrecSep-21	
180-102681-8	SGWC-17	Total/NA	Water	PrecSep-21	
180-102681-9	SGWC19	Total/NA	Water	PrecSep-21	
180-102681-10	FD-2(AP)	Total/NA	Water	PrecSep-21	
180-102681-11	FB-2(AP)	Total/NA	Water	PrecSep-21	
180-102681-12	EB-1(AP)	Total/NA	Water	PrecSep-21	
180-102681-13	EB-2(AP)	Total/NA	Water	PrecSep-21	
180-102681-14	EB-3(AP)	Total/NA	Water	PrecSep-21	
180-102683-1	SGWC-18	Total/NA	Water	PrecSep-21	
180-102683-2	FD-3 (AP)	Total/NA	Water	PrecSep-21	
180-102683-3	FB-3 (AP)	Total/NA	Water	PrecSep-21	
MB 160-461863/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-461863/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-461863/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

### Prep Batch: 461869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total/NA	Water	PrecSep_0	
180-102681-2	SGWC-10	Total/NA	Water	PrecSep_0	
180-102681-3	SGWC-12	Total/NA	Water	PrecSep_0	
180-102681-4	SGWC-13	Total/NA	Water	PrecSep_0	
180-102681-5	SGWC-14	Total/NA	Water	PrecSep_0	
180-102681-6	SGWC-15	Total/NA	Water	PrecSep_0	
180-102681-7	SGWC-16	Total/NA	Water	PrecSep_0	
180-102681-8	SGWC-17	Total/NA	Water	PrecSep_0	
180-102681-9	SGWC19	Total/NA	Water	PrecSep_0	
180-102681-10	FD-2(AP)	Total/NA	Water	PrecSep_0	

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# QC Association Summary

Client: Southern Company  
Project/Site: GPC Plant Scherer AP-1

Job ID: 180-102430-1

## Rad (Continued)

### Prep Batch: 461869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-11	FB-2(AP)	Total/NA	Water	PrecSep_0	
180-102681-12	EB-1(AP)	Total/NA	Water	PrecSep_0	
180-102681-13	EB-2(AP)	Total/NA	Water	PrecSep_0	
180-102681-14	EB-3(AP)	Total/NA	Water	PrecSep_0	
180-102683-1	SGWC-18	Total/NA	Water	PrecSep_0	
180-102683-2	FD-3 (AP)	Total/NA	Water	PrecSep_0	
180-102683-3	FB-3 (AP)	Total/NA	Water	PrecSep_0	
MB 160-461869/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-461869/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-461869/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

## Field Service / Mobile Lab

### Analysis Batch: 307817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102583-1	SGWA-3	Total/NA	Water	Field Sampling	
180-102583-2	SGWA-4	Total/NA	Water	Field Sampling	
180-102583-3	SGWC-6	Total/NA	Water	Field Sampling	
180-102583-4	SGWC-7	Total/NA	Water	Field Sampling	
180-102583-5	SGWC-8	Total/NA	Water	Field Sampling	
180-102583-6	SGWC-11	Total/NA	Water	Field Sampling	
180-102583-7	SGWC-20	Total/NA	Water	Field Sampling	
180-102583-8	SGWC-21	Total/NA	Water	Field Sampling	
180-102583-9	SGWC-22	Total/NA	Water	Field Sampling	
180-102583-10	SGWC-23	Total/NA	Water	Field Sampling	
180-102587-1	SGWA-5	Total/NA	Water	Field Sampling	
180-102587-2	SGWA-25	Total/NA	Water	Field Sampling	

### Analysis Batch: 308543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102681-1	SGWC-9	Total/NA	Water	Field Sampling	
180-102681-2	SGWC-10	Total/NA	Water	Field Sampling	
180-102681-3	SGWC-12	Total/NA	Water	Field Sampling	
180-102681-4	SGWC-13	Total/NA	Water	Field Sampling	
180-102681-5	SGWC-14	Total/NA	Water	Field Sampling	
180-102681-6	SGWC-15	Total/NA	Water	Field Sampling	
180-102681-7	SGWC-16	Total/NA	Water	Field Sampling	
180-102681-8	SGWC-17	Total/NA	Water	Field Sampling	
180-102681-9	SGWC-19	Total/NA	Water	Field Sampling	
180-102683-1	SGWC-18	Total/NA	Water	Field Sampling	

### Analysis Batch: 308823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102430-1	SGWA-1	Total/NA	Water	Field Sampling	
180-102430-2	SGWA-2	Total/NA	Water	Field Sampling	
180-102430-3	SGWA-24	Total/NA	Water	Field Sampling	

**TestAmerica Pittsburgh**  
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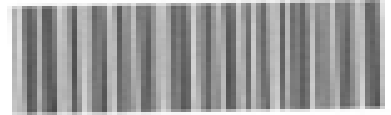
GG-Atlanta

### Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING  
 TestAmerica Laboratories, Inc.

Regulatory Program:  EPA  RCRA  NESHAP  Other

<b>Client Contact</b> Southern Company 211 Ralph McGill Blvd SE, #10185 Atlanta, GA 30338 (404) 508-7238 Phone FAX		<b>Project Manager: Dawn Peck</b> Tel/Fax: 248-526-9443		<b>Site Contact: Karim Minkara</b> Lab Contact: Veronica Bortot			<b>Date: 2/13/20</b> Carrier:			<b>COC No:</b> ___ of ___ COCs		
<b>Analysis Turnaround Time</b> <input type="checkbox"/> OVERNIGHT <input type="checkbox"/> WORKING DAYS TAT is defined as below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Sample Type</b> <input type="checkbox"/> Other <input type="checkbox"/> Other		<input type="checkbox"/> Filtered / <input type="checkbox"/> Unfiltered / <input type="checkbox"/> Filtrate / <input type="checkbox"/> Residue / <input type="checkbox"/> Other <input type="checkbox"/> Filtered / <input type="checkbox"/> Unfiltered / <input type="checkbox"/> Filtrate / <input type="checkbox"/> Residue / <input type="checkbox"/> Other <input type="checkbox"/> Filtered / <input type="checkbox"/> Unfiltered / <input type="checkbox"/> Filtrate / <input type="checkbox"/> Residue / <input type="checkbox"/> Other			<input type="checkbox"/> App IV Metals <input type="checkbox"/> Metals / <input type="checkbox"/> Other <input type="checkbox"/> Phosphate			<b>For Lab Use Only:</b> Walk-In Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SOG No.: _____ Sample Specific Notes: _____		
<b>Project Name: GPC Plant Scherer</b>		<b>Site: WP-1</b>										
<b>P.O.#</b>												
Sample Identification	Sample Date	Sample Time	Sample Type (Volume, # of Containers)	Matrix	# of Cont.	Filtered / Unfiltered / Filtrate / Residue / Other	App IV Metals	Metals / Other	Phosphate	Sample Specific Notes		
SORA-1	2/13/20	1320	G	GW	4		X	X	X	pH 5.09		
SORA-2	2/13/20	1410	G	GW	4		X	X	X	pH 6.58		
SORA-2A	2/13/20	1510	G	GW	4		X	X	X	pH 6.24		
Preservation/Pres.: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= HAcOH, 6= Other										<input type="checkbox"/> 4 <input type="checkbox"/> 1 <input type="checkbox"/> 1		
<b>Possible Hazard Identification:</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Nonhazard <input type="checkbox"/> Storage <input type="checkbox"/> Site Contact <input type="checkbox"/> Return <input type="checkbox"/> Other						<b>Sample Disposal</b> (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposed by Lab <input type="checkbox"/> Retire for _____ Months						
<b>Special Instructions/OC Requirements &amp; Comments:</b> *App IV Metals = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium).												
<b>Custody Seals Intact:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No			<b>Custody Seal No.:</b>			<b>Cooler Temp. (°C):</b> Obs'd: _____ Cor'd: _____			<b>Therm ID No.:</b> _____			
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: <i>2/13/20 1515</i>		Received by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: <i>2/13/20 1515</i>		
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: <i>2/17/20 1555</i>		Received by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: <i>2/18/20 1015</i>		
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time:		Received in Laboratory by:		Company:		Date/Time:		



180-102430 Chain of Custody



TestAmerica Pittsburgh

301 Alpha Drive  
RDC Park  
Pittsburgh, PA 15206-2907  
Phone 412.953.7000 Fax 412.953.2499

Chain of Custody Record



Regulatory Program:  SW  RCRA  SDWA  Other

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Dawn Pratt		Site Contact: Karla Wilkins		Date: 2/19/20		COC No:	
Southern Company		Tel/Fax: 348-534-9445		Lab Contact: Veronica Bortol		Carrier:		___ / ___ of ___ COCs	
3471 Ralph McGill Blvd SE 810185		Analysis Turnaround Time		Method		Matrix		Sampler	
Atlanta, GA, 30308		<input type="checkbox"/> Outdoor Air <input type="checkbox"/> Working Days		TAT is affected by delay: ___		pH		For/Lab Use Only: Waste in Client	
404-506-7339 Phone		0 2 weeks		1 1 week		2 2 days		Lab Sampling	
FAX		3 1 day		4		5		Job / SOG No:	
Project Name: GPC Plant Scherer									
Site: AP-1									
P-04									
Sample Identification	Sample Date	Sample Time	Sample Type (EPA Comp. #)	Matrix	# of Cont.	Method	Matrix	Matrix	Matrix
SDWA-3	2/18/2020	955	0	GW	3		X	X	X
SDWA-4	2/18/2020	1129	0	GW	3		X	X	X
SDWA-6	2/18/2020	1342	0	GW	3		X	X	X
SDWA-7	2/18/2020	1408	0	GW	3		X	X	X
SDWA-8	2/18/2020	1627	0	GW	3		X	X	X
SDWA-11	2/18/2020	1600	0	GW	3		X	X	X
SDWA-20	2/18/2020	1600	0	GW	3		X	X	X
SDWA-21	2/18/2020	1655	0	GW	3		X	X	X
SDWA-22	2/18/2020	1655	0	GW	3		X	X	X
SDWA-23	2/18/2020	1710	0	GW	3		X	X	X
FB-1 (AP)	2/18/2020	1655	0	GW	3		X	X	X
FD-1 (AP)	2/18/2020	--	0	GW	3		X	X	X
Preservation/Cons: 1=Ice, 2=HC2, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other						4 4 1			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						Sample Disposal   A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Storage <input type="checkbox"/> Soil Inert <input type="checkbox"/> Process <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Shipped to Lab <input type="checkbox"/> Continue to Monitor			
Special Instructions/OC Requirements & Comments: *App. H Metals = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium.									
Custody Seal Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C) Devd:		Conts:		Therm ID No.:	
ICZ		Golden		2/19/20		Elaene Cook		2/19/20	
Elaene Cook		Carrier Now		2/19/20		2-19-20		1046	
		2-19-20 10501				EPA		3/23/20 900	



Form No. CA-C-001-001, Rev. 4/18, dated 9/2019



TestAmerica Pittsburgh

301 Alpha Drive  
RDC Park  
Pittsburgh, PA 15208-2807  
Phone: 412-963-7000 Fax: 412-963-2468

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program:  HSW  RCRA  CERCLA  Other

Client Contact Southern Company 201 Roper Mill Blvd SE B10195 Atlanta, GA 30308 404/508-7229 Phone FAX Project Name: GPC Plant Schem Site: AP-1 P-O #		Project Manager: Dawn Pfeil Tel/Fax: 248-628-9445		Site Contact: Karim Winkam Lab Contact: Veronica Borbat		Date: 2/18/2020 Carrier:		COC No: 1 of 1 COCs	
Analysis Turnaround Time <input type="checkbox"/> 24 HOUR (CERCLA) <input type="checkbox"/> 48 HOUR (CERCLA) <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Weeks <input type="checkbox"/> 4 Weeks <input type="checkbox"/> 8 Weeks		Sample Type <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Other		Matrix <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Sludge <input type="checkbox"/> Other		Preservation Method <input type="checkbox"/> None <input type="checkbox"/> Refrigerated <input type="checkbox"/> Frozen <input type="checkbox"/> Other		Sampler: For Lab-Use Only: Walk-in Client Lab Sampling Job / COC No:	
Sample Identification	Sample Date	Sample Time	Sample Type (C-Code, In/Out)	Matrix	P.O. #	Preservation Method	Analysis Method	Analysis Unit	Sample-Specific Notes
SOBA-6	2/17/2020	10:40	☐	Gas	3		X	X	X
SOBA-25	2/17/2020	10:40	☐	Gas	3		X	X	X
Preservation Used: <input type="checkbox"/> None, <input type="checkbox"/> ICE, <input type="checkbox"/> HClO4, <input type="checkbox"/> HNO3, <input type="checkbox"/> NaOH, <input type="checkbox"/> Other						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return to Client <input type="checkbox"/> Dispose by Lab <input type="checkbox"/> Archive for _____ Months			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-hazardous <input type="checkbox"/> Ignitable <input type="checkbox"/> Corrosive <input type="checkbox"/> Poisonous <input type="checkbox"/> Unknown						Special Instructions/OC Requirements & Comments: *App if Metals = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium.			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C) Descr:		Cont:		Therm ID No.:	
Relinquished by: <i>Yvonne</i> <i>Elaine Cook</i> Signature: <i>[Signature]</i> Date/Time: <i>2/18/20 10:40</i>		Company: <i>GA</i> <i>Cherier Neal</i> Signature: <i>[Signature]</i> Date/Time: <i>2/18/20</i>		Received by: <i>Elaine Cook</i> <i>[Signature]</i> Signature: <i>[Signature]</i> Date/Time: <i>2/18/20</i>		Company: <i>Cherier Neal</i> <i>ETA</i>		Therm ID No.: <i>2-18-20</i>	
Relinquished by: <i>[Signature]</i>		Company: <i>ETA</i>		Received by: <i>[Signature]</i>		Company: <i>ETA</i>		Therm ID No.: <i>2-20-20</i>	



9:00



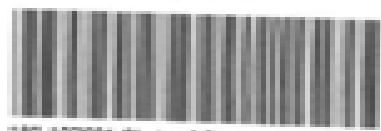
301 Alpha Drive  
RDC Park  
Pittsburgh, PA 15236-2907  
phone 412.963.7058 fax 412.963.2495

Regulatory Program:  CER  RCRA  NDA  Other

TestAmerica Laboratories, Inc.

Client Contact Southern Company Gen Ralph McGill Blvd SE B10185 Atlanta, GA, 30308 (404) 506-7239 Phone FAX		Project Manager: Dawn Prell Tel/Fax: 348-506-5445		Site Contact: Karim Minkara Lab Contact: Veronica Bortot		Date: 3/20/2020 Carrier:		COC No: ___ of ___ COCs	
Project Name: GPC Plant Scher Site: AP-1 P O #		Analysis Turnaround Time <input type="checkbox"/> CALIBRATED DAYS <input type="checkbox"/> WORKING DAYS DAYS Different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Samples (Y/N) _____ Performs MS / MS/MS (Y/N) _____ App IV Metals? _____ MS / MS metals _____ Fluoride _____				Sampler: For Lab Use Only: Walk-in Client Lab Sampling: _____ Job / SOG No.:	

Sample Identification	Sample Date	Sample Time	Sample Type (E-Corp, S-Div)	Matrix	Mat Cont	Filtered Samples (Y/N)	Performs MS / MS/MS (Y/N)	App IV Metals?	MS / MS metals	Fluoride	Sample Specific Notes:
SGWC-9	2/19/2020	900	G	GW	3			X	X	X	pH 5.03
SGWC-10	2/19/2020	1000	G	GW	3			X	X	X	pH 5.07
SGWC-12	2/19/2020	140	G	GW	3			X	X	X	pH 5.07
SGWC-13	2/19/2020	1230	G	GW	3			X	X	X	pH 5.04
SGWC-14	2/19/2020	1300	G	GW	3			X	X	X	pH 5.75
SGWC-15	2/19/2020	1410	G	GW	3			X	X	X	pH 4.98
SGWC-16	2/19/2020	1510	G	GW	3			X	X	X	pH 5.16
SGWC-17	2/19/2020	1555	G	GW	3			X	X	X	pH 5.16
SGWC-18	2/19/2020	1615	G	GW	3			X	X	X	pH 5.53
FB-2 (AP)	2/19/2020	-	G	GW	3			X	X	X	
FB-2 (AP)	2/19/2020	1600	G	GW	3			X	X	X	
EB-1 (AP)	2/19/2020	1030	G	GW	3			X	X	X	
EB-2 (AP)	2/19/2020	1640	G	GW	3			X	X	X	
EB-3 (AP)	2/19/2020	1645	G	GW	3			X	X	X	



180-102681 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other \_\_\_\_\_

Possible Hazard Identification:  
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal | A fee may be assessed  
 Return to Client  Disposed by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/OC Requirements & Comments:  
\*App IV Metals = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium.

Custody Seals Intact:  Yes  No  
Custody Seal No.: \_\_\_\_\_ Cooler Temp. (°C) Obs'd: \_\_\_\_\_ Cor'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_

Relinquished by: <i>Karen</i>	Company: <i>Edco</i>	Signature: <i>Karen</i>	Date/Time: <i>2/20/20 7:37</i>
Relinquished by: <i>Elena Cook</i>	Company: <i>New</i>	Signature: <i>Elena Cook</i>	Date/Time: <i>2/20/20 10:40</i>
Relinquished by: <i>3</i>	Company: <i>ETA</i>	Signature: <i>3</i>	Date/Time: <i>2-21-20</i>

Page 93 of 113

3/31/2020





TestAmerica Pittsburgh

301 Alpha Drive  
 RDC Park  
 Pittsburgh, PA 15236-2907  
 phone-412-963-7058 fax-412-963-3498

Chain of Custody Record



Regulatory Program:  IOL  HSPDS  HSPS  Other

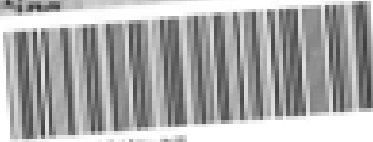
TestAmerica Laboratories, Inc.

Client Contact Southern Company 241 Ralph McGill Blvd SE, Bldg 880 Atlanta, GA, 30308 (404) 508-7238 Phone Fax Project Name: GPC Plant Schem Site: AP-1 P.O.#		Project Manager: Dawn Peell Tel/Fax: 348-626-6448		Site Contact: Karim Winkara Lab Contact: Veronica Barot		Date: 2/20/20 Carrier:		COC No. ____ of ____ COCs Sampler: For Lab Use Only: Walk-in Client Lab Sampling Job / SOG No.		
Analysis Turnaround Time <input type="checkbox"/> CALIBRATED DAYS <input type="checkbox"/> NON-CALIBRATED DAYS TAT Difference from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Type (By Comp. Matrix) Matrix: _____ # of Containers: _____		Filtered (Yes/No) (Y/N) Preserved (Yes/No) (Y/N) App # Meq/L Residual (ppm) (ppm) Preserve				Sample Specific Notes: pH: 4.04		
Sample Identification	Sample Date	Sample Time	Sample Type (By Comp. Matrix)	Matrix	# of Containers	Filtered (Y/N)	Preserved (Y/N)	App # Meq/L	Residual (ppm) (ppm)	Preserve
SCMC-18	2/20/2020	11:00	☐	GR	3					
FD-3 (AP)	2/20/2020	-	☐	GR	3					
FB-3 (AP)	2/20/2020	11:00	☐	GR	3					
Preservation Used: 1= Ice, 2= HDI, 3= H2SO4, 4=HNO3, 5=H2O2, 6= Other _____						4	4	1		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Ignitable <input type="checkbox"/> Ben. Inert <input type="checkbox"/> Poison <input type="checkbox"/> Corrosive <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 year) <input type="checkbox"/> Return to Client <input type="checkbox"/> Dispose by Lab <input type="checkbox"/> Other by _____				
Special Instructions/OC Requirements & Comments: *App # Metals = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium.										
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No. _____		Cooler Temp. (°C) (°F) _____		Cont'd _____		Therm ID No. _____		
Requested by: <i>[Signature]</i>		Company: <i>Golden</i>		Date/Time: <i>2-20-20 16:15</i>		Received by: <i>[Signature]</i>		Company: <i>2-20-20 16:12</i>		
Requested by: <i>[Signature]</i>		Company: <i>2-20-20</i>		Date/Time: <i>16:15</i>		Received by: <i>[Signature]</i>		Company: <i>[Signature]</i>		
Requested by: <i>[Signature]</i>		Company: _____		Date/Time: _____		Received in Laboratory by: _____		Company: _____		





Environment Testing  
TestAmerica



180-102430 Waybill

Environment Testing  
TestAmerica

ORIGIN ID: 1704 (1878) 968-0990  
ADDRESS: TAYLOR  
EUROFINS TESTAMERICA  
3001 HOBBSBUSH DRIVE  
SUITE C-10  
MONROE, LA 70009  
UNITED STATES US

SHIP DATE: OCT 14 2011  
CAG: 9991

BILL RECEIPT

ORIGIN ID: 1704 (1878) 968-0990  
ADDRESS: TAYLOR  
EUROFINS TESTAMERICA  
3001 HOBBSBUSH DRIVE  
SUITE C-10  
MONROE, LA 70009  
UNITED STATES US

SHIP DATE: LATE 2010  
PC: 10011-2010118  
CAG: 999118/CAFE2312

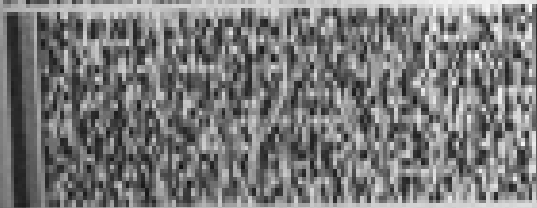
BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

(412) 968-7068  
REF: GOLDR

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

(412) 968-7068  
REF: GOLDR



2 of 3  
MPS# 1516 9323 0430  
Matr# 1516 9323 0429

SATURDAY 12:00  
PRIORITY OVERNIGHT

XO AGCA

15238

Uncorrected temp 3.4 °C  
Thermometer ID 12

CF  Initials TJ

PT-106-08-001 effective 11/8/10

1 of 3  
MPS# 1516 9323 0429  
Matr# 1516 9323 0429

SATURDAY 12:00  
PRIORITY OVERNIGHT

XO AGCA

15238  
PA-US PIT

Uncorrected temp 3.2 °C  
Thermometer ID 1a

CF  Initials TJ

PT-106-08-001 effective 11/8/10

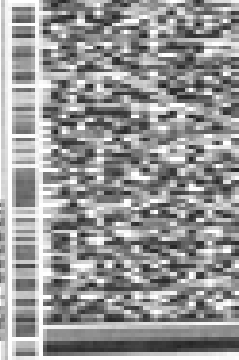


Environment Testing  
TestAmerica

ORIGIN 1511574 (079) 000-0000  
SHIP TO: 1511574  
EUROFINS TESTAMERICA  
301 ALPHA DR.  
SUITE 2-10  
RIDC PARK  
PITTSBURGH, PA 15238  
UNITED STATES US

SHIP DATE: 10/15/20  
SHIP TO: 1511574  
CART: 00000000000000000000  
BILL RECIPIENT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
1410 000-7000  
REF: 00LDR



SATURDAY 12:00P  
PRIORITY OVERNIGHT

3 of 3  
MPS# 1516 9323 0440  
Metric# 1516 9323 0429

XO AGCA

15238  
PA-US PIT



Uncorrected temp  
Thermometer ID

1.6 °C  
1.0

CF Initials JB

150100-424 INT 0107 0100 14



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

eurolins

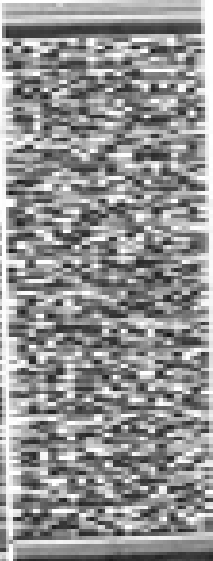
Environment Testing  
TestAmerica

800-854-1234 (878) 866-8881  
SHIP CENTER (PITTSBURGH)  
1000 W. PENNSYLVANIA AVE  
PITTSBURGH, PA 15204  
TEL: 412-261-1234 FAX: 412-261-1235

SHIP CENTER (PITTSBURGH)  
1000 W. PENNSYLVANIA AVE  
PITTSBURGH, PA 15204  
TEL: 412-261-1234 FAX: 412-261-1235

SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

412 261 1234  
REC: BANTHERN CO



THU - 20 FEB 3:00P  
STANDARD OVERNIGHT

2 of 4  
1516 9323 0635  
1516 9323 0624

NA AGCA  
Uncorrected temp 10 °C  
Thermometer ID 13

CF 13 Initials TS



15238  
PA-US  
PIT

eurolins

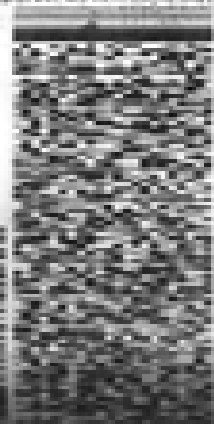
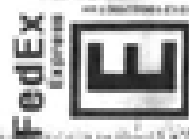
Environment Testing  
TestAmerica

800-854-1234  
SHIP CENTER (PITTSBURGH)  
1000 W. PENNSYLVANIA AVE  
PITTSBURGH, PA 15204  
TEL: 412-261-1234 FAX: 412-261-1235

SHIP CENTER (PITTSBURGH)  
1000 W. PENNSYLVANIA AVE  
PITTSBURGH, PA 15204  
TEL: 412-261-1234 FAX: 412-261-1235

SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

412 261 1234

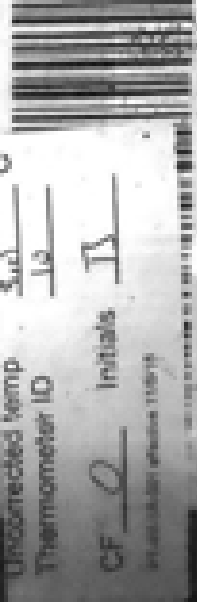


THU - 20 FEB 3:00P  
STANDARD OVERNIGHT

1 of 4  
9323 0657  
9323 0624

AGCA  
Uncorrected temp 10 °C  
Thermometer ID 13

CF 13 Initials TS



15238  
PA-US  
PIT



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



Environment Testing  
TestAmerica

ORIGIN: 1041176 (439) 880-0000  
ADDRESS: 1041176  
CITY: PITTSBURGH  
STATE: PA  
COUNTRY: US  
DATE: 02/20/20  
SHIP TO: 1041176  
SHIP FROM: 1041176  
SHIP TO: 1041176  
SHIP FROM: 1041176



SHIP DATE: 02/20/20  
ACTUAL: 02/20/20  
CITY: PITTSBURGH  
STATE: PA  
COUNTRY: US

BILL RECEIVED

39 SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH

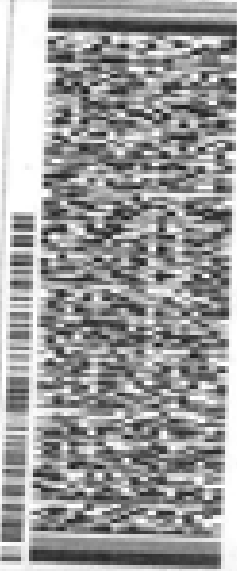
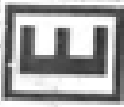
301 ALPHA DR.

RIDD PARK

PITTSBURGH PA 15238

PH: 412-399-7000  
FAX: 412-399-7000  
WEB: 80THEFIRM.CO

FedEx  
Express



TRACKING NUMBER: 1516 9323 0612

THU - 20 FEB 3:00P  
STANDARD OVERNIGHT

NA AGCA

15238

Uncorrected Temp  
Thermometer ID

CF 0

Initials

4.2 °C

1.0

TS

PT: 1041176-001 effective 1/2/20



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Environn  
TestAmer



1-800-528-8811 www.eurofins.com

eurofins

Environment Testing  
TestAmerica

ORDER # 15117 (478) 988-8881  
SHIP DATE: 21 FEB 2020  
ACTIVITY: 15117  
SHIP TO: 15117  
SHIP ADDRESS: 15117  
SHIP CITY: PITTSBURGH  
SHIP STATE: PA  
SHIP ZIP: 15238  
UNITED STATES US

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
REF: SOUTHERN CO

SHIP DATE: 21 FEB 2020  
ACTIVITY: 15117  
SHIP TO: 15117  
SHIP ADDRESS: 15117  
SHIP CITY: PITTSBURGH  
SHIP STATE: PA  
SHIP ZIP: 15238  
UNITED STATES US

BILL RECIPIENT



FedEx  
Express

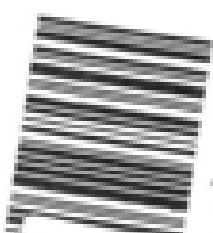


4 of 5  
MTRF 1516 9323 0852  
STANDARD OVERNIGHT  
FRI - 21 FEB 3:00P  
15238  
PIT

NA AGCA

Uncorrected temp  
Thermometer ID

CF 0 Initials BS



ORDER # 15117 (478) 988-8881  
SHIP DATE: 21 FEB 2020  
ACTIVITY: 15117  
SHIP TO: 15117  
SHIP ADDRESS: 15117  
SHIP CITY: PITTSBURGH  
SHIP STATE: PA  
SHIP ZIP: 15238  
UNITED STATES US

TO SAMPLE RECEIVING

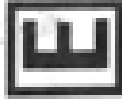
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
REF: SOUTHERN CO

SHIP DATE: 21 FEB 2020  
ACTIVITY: 15117  
SHIP TO: 15117  
SHIP ADDRESS: 15117  
SHIP CITY: PITTSBURGH  
SHIP STATE: PA  
SHIP ZIP: 15238  
UNITED STATES US

BILL RECIPIENT



FedEx  
Express



2 of 5  
MTRF 1516 9323 0830  
STANDARD OVERNIGHT  
FRI - 21 FEB 3:00P  
15238  
PIT

NA AGCA

Uncorrected temp  
Thermometer ID

CF 0 Initials BS



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16<sup>th</sup>

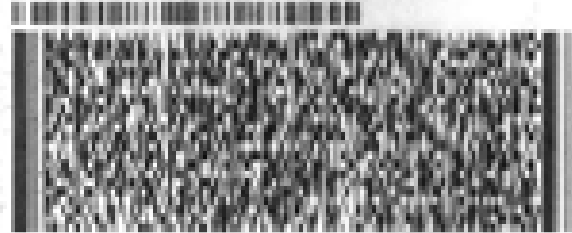
ment Testing  
 TestAmerica

ORIGIN: 000174 (478) 848-8881  
 ORIGIN: TMS/OK  
 CUSIP: TESTAMERICA  
 301 ALPHADRIVE  
 SUITE C-20  
 PITTSBURGH, PA 15238  
 UNITED STATES US

SHIP DATE: 20FE00  
 ACTWGT: 31.45 LB  
 CADD: 00018/CAF03012  
 BILL RECEIPT

TO SAMPLE RECEIVING  
 EUROFINS TESTAMERICA PITTSBURGH  
 301 ALPHA DR.  
 RIDC PARK  
 PITTSBURGH PA 15238

(478) 848-7948  
 REF: SOUTHERN CO



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5 of 5 FRI - 21 FEB 3:00P  
 1516 9323 0863 STANDARD OVERNIGHT

Metr# 1516 9323 0820  
**NA AGCA** 15238  
 PA-US PIT

Uncorrected temp	2.7	C
Thermometer ID	12	
CF	0	Initials JS

PT-000-001 effective 11/07/18



Environment Testing  
TestAmerica

2019 FEB 17 09:59:00  
SHIP DATE: 2020  
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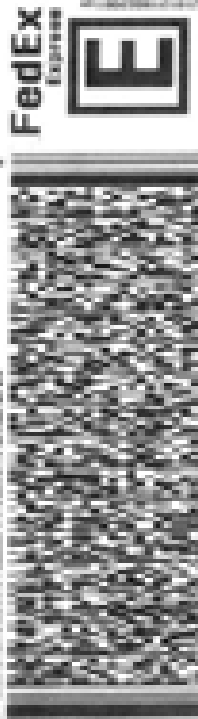
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SHIP DATE: 2020

BILL RECEIPT

SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

1470 984-7004  
REF: SOUTHERN CO



3 of 6  
1516 9323 0841  
1516 9323 0820  
STANDARD OVERNIGHT

NA AGCA

15238  
PIT

Unconnected temp 16 °C  
Thermometer ID B

CF 0 Initials B

PT-USA-001-001-001-001-001-001



2019 FEB 17 09:59:00

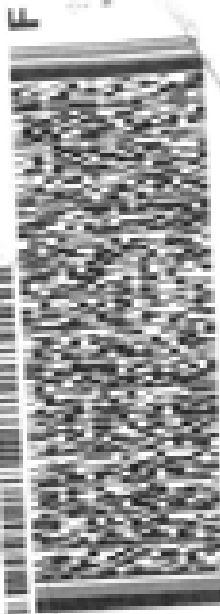
Environment Testing  
TestAmerica

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BILL RECEIPT

SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

1470 984-7004  
REF: SOUTHERN CO



1 of 6  
1516 9323 0820  
STANDARD OVE

NA AGCA

15238  
PIT

Unconnected temp 16 °C  
Thermometer ID B

CF 0 Initials B

PT-USA-001-001-001-001-001-001

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eurofir

EX-20  
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02-21

16<sup>TH</sup>

Test America

FROM:  
EUROFIR  
3000 WOODBURN DRIVE  
BILLYE, SC 29008  
UNITED STATES US

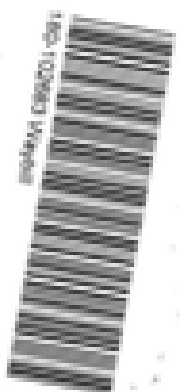
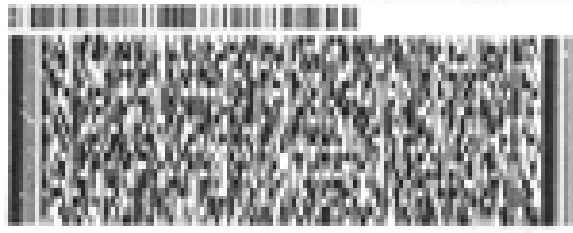
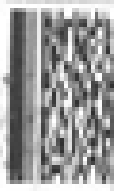
ORIGIN 00111111 18761 000-0001  
EUROFIR TESTAMERICA  
3000 WOODBURN DRIVE  
BILLYE SC 29008  
UNITED STATES US

SHIP DATE: 02/21/20  
ACT WT: 46.20 LB  
CNO: 000156-CAN-00012  
BILL RECEIPT

BUDD  
PLAN1  
10986  
B1018  
JULIE

SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: SOUTHERN CO



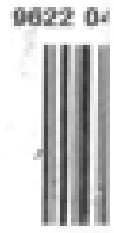
465  
48

1516 9323 0874

FRI - 21 FEB 3:00P  
STANDARD OVERNIGHT

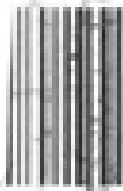
NA AGCA

15238  
PA-US PIT



Uncorrected temp	<u>10.2</u>	°C
Thermometer ID	<u>10</u>	
CF <input type="checkbox"/>	Initials <u>JB</u>	

PT-000-0001 effective 1/18/18





# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102430**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102430**

**List Number: 2**

**Creator: Harris, Lorin C**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 02/18/20 11:21 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102583**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Kovitch, Christina M**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102583**

**List Number: 2**

**Creator: Harris, Lorin C**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 02/23/20 11:39 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102587**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102587**

**List Number: 2**

**Creator: Harris, Lorin C**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 02/23/20 11:39 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102681**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102681**

**List Number: 2**

**Creator: Harris, Lorin C**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 02/25/20 04:47 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102683**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102430-1

**Login Number: 102683**

**List Number: 2**

**Creator: Harris, Lorin C**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 02/25/20 04:47 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**APPENDIX C**

**ANALYTICAL RESULTS  
MARCH 2020**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-103766-1  
Client Project/Site: Plant Scherer Ash Pond  
Revision: 1

For:  
Southern Company  
PO BOX 2641 GSC8  
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:  
5/14/2020 4:26:35 PM

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

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## Job ID: 180-103766-1

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Laboratory: Eurofins TestAmerica, Pittsburgh

### Narrative

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#### Job Narrative 180-103766-1

#### Comments

At consultant request this report contains does not contain Alkalinity, Magnesium, Pottasium and Sodium for TestAmerica jobs 180-103766-1 and 180-103814-1. These results were issued in a seperate report.

#### Revision

The report being provided is a revision of the original report sent on 5/7/2020. The report (revision 1) is being revised due to: not a revision; partial final per client request.

#### Receipt

The samples were received on 3/19/2020 8:30 AM, 3/20/2020 9:00 AM, 3/25/2020 9:30 AM, 3/26/2020 9:00 AM, 3/27/2020 9:00 AM and 3/28/2020 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 18 coolers at receipt time were 1.1° C, 1.3° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 2.0° C, 2.0° C, 2.2° C, 2.4° C, 2.4° C, 3.1° C, 3.7° C, 3.9° C, 3.9° C, 4.0° C, 4.1° C and 4.1° C.

#### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custodies.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC was not relinquished. 180-103814-1

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-312766 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects or less than the RL for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 180-312766/157).

Method 7470A: The LCS associated with 310887 was accidentally spiked with 2.25 mL rather than 1.25 mL.

SGWA-5 (180-103766-1), SGWA-3 (180-103766-2), SGWA-2 (180-103766-3), SGWA-25 (180-103766-4), FB-1(AP) (180-103766-5), SGWA-1 (180-103814-1), SGWA-4 (180-103814-2), SGWA-24 (180-103814-3), (180-103814-D-3 MS) and (180-103814-D-3 MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Laboratory: Eurofins TestAmerica, Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	02-00416	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Field Sampling		Water	pH



# Sample Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103766-1	SGWA-5	Water	03/17/20 14:25	03/19/20 08:30	
180-103766-2	SGWA-3	Water	03/17/20 15:38	03/19/20 08:30	
180-103766-3	SGWA-2	Water	03/17/20 14:30	03/19/20 08:30	
180-103766-4	SGWA-25	Water	03/17/20 15:45	03/19/20 08:30	
180-103766-5	FB-1(AP)	Water	03/17/20 00:00	03/19/20 08:30	
180-103814-1	SGWA-1	Water	03/18/20 14:50	03/20/20 09:00	
180-103814-2	SGWA-4	Water	03/18/20 14:50	03/20/20 09:00	
180-103814-3	SGWA-24	Water	03/18/20 13:22	03/20/20 09:00	
180-103814-4	FD-1(AP)	Water	03/18/20 00:00	03/20/20 09:00	
180-103814-5	EB-1(AP)	Water	03/18/20 16:00	03/20/20 09:00	
180-103979-1	SGWC-19	Water	03/23/20 17:45	03/25/20 09:30	
180-103979-2	SGWC-20	Water	03/23/20 16:35	03/25/20 09:30	
180-103979-3	SGWC-21	Water	03/23/20 16:33	03/25/20 09:30	
180-103979-4	EB-2(AP)	Water	03/23/20 18:00	03/25/20 09:30	
180-103979-5	FD-2(AP)	Water	03/23/20 00:00	03/25/20 09:30	
180-104016-1	SGWC-17	Water	03/24/20 12:02	03/26/20 09:00	
180-104016-2	SGWC-23	Water	03/24/20 10:05	03/26/20 09:00	
180-104016-3	SGWC-22	Water	03/24/20 08:48	03/26/20 09:00	
180-104016-4	FB-2(AP)	Water	03/24/20 08:30	03/26/20 09:00	
180-104069-1	SGWC-6	Water	03/25/20 11:29	03/27/20 09:00	
180-104069-2	SGWC-8	Water	03/25/20 09:15	03/27/20 09:00	
180-104069-3	SGWC-9	Water	03/25/20 09:18	03/27/20 09:00	
180-104069-4	SGWC-10	Water	03/25/20 11:03	03/27/20 09:00	
180-104069-5	SGWC-11	Water	03/25/20 11:56	03/27/20 09:00	
180-104069-6	EB-3(AP)	Water	03/25/20 11:40	03/27/20 09:00	
180-104069-7	FD-3(AP)	Water	03/25/20 00:00	03/27/20 09:00	
180-104107-1	SGWC-13	Water	03/27/20 09:16	03/28/20 10:30	
180-104107-2	SGWC-14	Water	03/27/20 10:04	03/28/20 10:30	
180-104107-3	SGWC-15	Water	03/27/20 08:46	03/28/20 10:30	
180-104107-4	SGWC-16	Water	03/27/20 10:09	03/28/20 10:30	
180-104108-1	SGWC-7	Water	03/26/20 16:34	03/28/20 10:30	
180-104108-2	SGWC-12	Water	03/26/20 16:00	03/28/20 10:30	
180-104108-3	SGWC-18	Water	03/26/20 16:38	03/28/20 10:30	
180-104108-4	FB-3 (AP)	Water	03/26/20 17:00	03/28/20 10:30	

# Method Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWA-5**

**Lab Sample ID: 180-103766-1**

**Date Collected: 03/17/20 14:25**

**Matrix: Water**

**Date Received: 03/19/20 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312070	04/05/20 04:29	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311032	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 02:29	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:06	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 14:25	FDS	TAL PIT

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-103766-2**

**Date Collected: 03/17/20 15:38**

**Matrix: Water**

**Date Received: 03/19/20 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312070	04/05/20 04:45	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311032	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 02:32	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:07	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 15:38	FDS	TAL PIT

**Client Sample ID: SGWA-2**

**Lab Sample ID: 180-103766-3**

**Date Collected: 03/17/20 14:30**

**Matrix: Water**

**Date Received: 03/19/20 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312070	04/05/20 05:01	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311032	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 02:36	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:08	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: SGWA-2

Lab Sample ID: 180-103766-3

Date Collected: 03/17/20 14:30

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 14:30	FDS	TAL PIT

## Client Sample ID: SGWA-25

Lab Sample ID: 180-103766-4

Date Collected: 03/17/20 15:45

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312070	04/05/20 05:48	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311032	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 02:46	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:09	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 15:45	FDS	TAL PIT

## Client Sample ID: FB-1(AP)

Lab Sample ID: 180-103766-5

Date Collected: 03/17/20 00:00

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312070	04/05/20 06:04	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311032	03/25/20 07:30	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			311959	04/03/20 02:50	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:12	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310666	03/21/20 08:52	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 00:00	FDS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: SGWA-1

Date Collected: 03/18/20 14:50

Date Received: 03/20/20 09:00

## Lab Sample ID: 180-103814-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312144	04/07/20 06:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311118	03/25/20 15:28	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			312766	04/11/20 19:06	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:13	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 14:50	FDS	TAL PIT

## Client Sample ID: SGWA-4

Date Collected: 03/18/20 14:50

Date Received: 03/20/20 09:00

## Lab Sample ID: 180-103814-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312144	04/07/20 14:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311119	03/25/20 15:29	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			311957	04/02/20 17:43	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:14	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 14:50	FDS	TAL PIT

## Client Sample ID: SGWA-24

Date Collected: 03/18/20 13:22

Date Received: 03/20/20 09:00

## Lab Sample ID: 180-103814-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 00:45	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311119	03/25/20 15:29	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			311957	04/02/20 17:45	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310887	03/23/20 17:51	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 18:15	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: SGWA-24

Lab Sample ID: 180-103814-3

Date Collected: 03/18/20 13:22

Matrix: Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 13:22	FDS	TAL PIT

## Client Sample ID: FD-1(AP)

Lab Sample ID: 180-103814-4

Date Collected: 03/18/20 00:00

Matrix: Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 00:29	MJH	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT

## Client Sample ID: EB-1(AP)

Lab Sample ID: 180-103814-5

Date Collected: 03/18/20 16:00

Matrix: Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312143	04/07/20 00:14	MJH	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT

## Client Sample ID: SGWC-19

Lab Sample ID: 180-103979-1

Date Collected: 03/23/20 17:45

Matrix: Water

Date Received: 03/25/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312442	04/09/20 18:56	SAC	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			312565	04/10/20 11:28	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 16:57	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311813	04/01/20 17:03	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311939	04/02/20 19:14	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311206	03/26/20 09:09	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311154	03/23/20 17:45	FDS	TAL PIT

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-20**

**Lab Sample ID: 180-103979-2**

**Date Collected: 03/23/20 16:35**

**Matrix: Water**

**Date Received: 03/25/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312442	04/09/20 19:11	SAC	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			312565	04/10/20 18:19	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 17:00	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311813	04/01/20 17:03	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311939	04/02/20 19:15	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311206	03/26/20 09:09	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311154	03/23/20 16:35	FDS	TAL PIT

**Client Sample ID: SGWC-21**

**Lab Sample ID: 180-103979-3**

**Date Collected: 03/23/20 16:33**

**Matrix: Water**

**Date Received: 03/25/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312442	04/09/20 19:26	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 17:04	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311813	04/01/20 17:03	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311939	04/02/20 19:16	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311206	03/26/20 09:09	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311154	03/23/20 16:33	FDS	TAL PIT

**Client Sample ID: EB-2(AP)**

**Lab Sample ID: 180-103979-4**

**Date Collected: 03/23/20 18:00**

**Matrix: Water**

**Date Received: 03/25/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312442	04/09/20 18:40	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 17:07	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: EB-2(AP)

Lab Sample ID: 180-103979-4

Date Collected: 03/23/20 18:00

Matrix: Water

Date Received: 03/25/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	311813	04/01/20 17:03	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311939	04/02/20 19:17	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311206	03/26/20 07:50	AVS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: FD-2(AP)

Lab Sample ID: 180-103979-5

Date Collected: 03/23/20 00:00

Matrix: Water

Date Received: 03/25/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312442	04/09/20 19:42	SAC	TAL PIT
		Instrument ID: CHIC2100A								
Total/NA	Analysis	EPA 300.0 R2.1		5			312565	04/10/20 11:44	SAC	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313035	04/15/20 17:10	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311813	04/01/20 17:03	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311939	04/02/20 19:18	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311206	03/26/20 09:09	AVS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: SGWC-17

Lab Sample ID: 180-104016-1

Date Collected: 03/24/20 12:02

Matrix: Water

Date Received: 03/26/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312386	04/09/20 01:06	SAC	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	311518	03/30/20 00:45	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313035	04/15/20 15:08	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311971	04/03/20 10:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312051	04/03/20 19:17	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311337	03/27/20 08:47	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			311585	03/24/20 12:02	FDS	TAL PIT
		Instrument ID: NOEQUIP								

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-104016-2**

**Date Collected: 03/24/20 10:05**

**Matrix: Water**

**Date Received: 03/26/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312386	04/09/20 01:22	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311518	03/30/20 00:45	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 15:12	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311971	04/03/20 10:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312051	04/03/20 19:20	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311337	03/27/20 08:47	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311585	03/24/20 10:05	FDS	TAL PIT

**Client Sample ID: SGWC-22**

**Lab Sample ID: 180-104016-3**

**Date Collected: 03/24/20 08:48**

**Matrix: Water**

**Date Received: 03/26/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312386	04/09/20 01:38	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311518	03/30/20 00:45	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 15:15	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311971	04/03/20 10:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312051	04/03/20 19:21	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311337	03/27/20 08:47	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311585	03/24/20 08:48	FDS	TAL PIT

**Client Sample ID: FB-2(AP)**

**Lab Sample ID: 180-104016-4**

**Date Collected: 03/24/20 08:30**

**Matrix: Water**

**Date Received: 03/26/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312386	04/09/20 02:25	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311518	03/30/20 00:45	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 15:18	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311971	04/03/20 10:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312051	04/03/20 19:22	NAM	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: FB-2(AP)

Date Collected: 03/24/20 08:30

Date Received: 03/26/20 09:00

## Lab Sample ID: 180-104016-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311337	03/27/20 08:47	AVS	TAL PIT

## Client Sample ID: SGWC-6

Date Collected: 03/25/20 11:29

Date Received: 03/27/20 09:00

## Lab Sample ID: 180-104069-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312565	04/10/20 12:32	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 15:51	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311986	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312179	04/06/20 15:54	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311436	03/28/20 08:31	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311585	03/25/20 11:29	FDS	TAL PIT

## Client Sample ID: SGWC-8

Date Collected: 03/25/20 09:15

Date Received: 03/27/20 09:00

## Lab Sample ID: 180-104069-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312565	04/10/20 14:38	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 16:07	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311986	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312179	04/06/20 15:57	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311436	03/28/20 08:31	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311585	03/25/20 09:15	FDS	TAL PIT

## Client Sample ID: SGWC-9

Date Collected: 03/25/20 09:18

Date Received: 03/27/20 09:00

## Lab Sample ID: 180-104069-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312565	04/10/20 13:35	SAC	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: SGWC-9

## Lab Sample ID: 180-104069-3

Date Collected: 03/25/20 09:18

Matrix: Water

Date Received: 03/27/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5			312565	04/10/20 13:51	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313035	04/15/20 16:17	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311986	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312179	04/06/20 16:00	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311436	03/28/20 08:31	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			311585	03/25/20 09:18	FDS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: SGWC-10

## Lab Sample ID: 180-104069-4

Date Collected: 03/25/20 11:03

Matrix: Water

Date Received: 03/27/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312565	04/10/20 14:07	SAC	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313035	04/15/20 16:21	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311986	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312179	04/06/20 16:01	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311436	03/28/20 08:31	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			311585	03/25/20 11:03	FDS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: SGWC-11

## Lab Sample ID: 180-104069-5

Date Collected: 03/25/20 11:56

Matrix: Water

Date Received: 03/27/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312565	04/10/20 14:22	SAC	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313035	04/15/20 16:24	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311986	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312179	04/06/20 16:02	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311436	03/28/20 08:31	AVS	TAL PIT
		Instrument ID: NOEQUIP								

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-104069-5**

**Date Collected: 03/25/20 11:56**

**Matrix: Water**

**Date Received: 03/27/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			311585	03/25/20 11:56	FDS	TAL PIT

**Client Sample ID: EB-3(AP)**

**Lab Sample ID: 180-104069-6**

**Date Collected: 03/25/20 11:40**

**Matrix: Water**

**Date Received: 03/27/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312565	04/10/20 13:19	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 16:27	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311986	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312179	04/06/20 16:03	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311436	03/28/20 08:31	AVS	TAL PIT

**Client Sample ID: FD-3(AP)**

**Lab Sample ID: 180-104069-7**

**Date Collected: 03/25/20 00:00**

**Matrix: Water**

**Date Received: 03/27/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312565	04/10/20 14:54	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311519	03/30/20 08:55	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313035	04/15/20 16:31	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311986	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312179	04/06/20 16:04	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311436	03/28/20 08:31	AVS	TAL PIT

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-104107-1**

**Date Collected: 03/27/20 09:16**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312442	04/10/20 06:59	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311753	04/01/20 08:27	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313140	04/16/20 22:57	WTR	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: SGWC-13

## Lab Sample ID: 180-104107-1

Date Collected: 03/27/20 09:16

Matrix: Water

Date Received: 03/28/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	311971	04/03/20 10:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312051	04/03/20 19:23	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311642	03/31/20 09:34	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			311585	03/27/20 09:16	FDS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: SGWC-14

## Lab Sample ID: 180-104107-2

Date Collected: 03/27/20 10:04

Matrix: Water

Date Received: 03/28/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312442	04/10/20 07:15	SAC	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311753	04/01/20 08:27	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313140	04/16/20 23:13	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311971	04/03/20 10:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312051	04/03/20 19:24	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311642	03/31/20 09:34	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			311585	03/27/20 10:04	FDS	TAL PIT
		Instrument ID: NOEQUIP								

## Client Sample ID: SGWC-15

## Lab Sample ID: 180-104107-3

Date Collected: 03/27/20 08:46

Matrix: Water

Date Received: 03/28/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			312442	04/10/20 07:31	SAC	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311753	04/01/20 08:27	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313140	04/16/20 23:16	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			50 mL	50 mL	311971	04/03/20 10:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312051	04/03/20 19:25	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311642	03/31/20 09:34	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			311585	03/27/20 08:46	FDS	TAL PIT
		Instrument ID: NOEQUIP								

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-16**

**Lab Sample ID: 180-104107-4**

**Date Collected: 03/27/20 10:09**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312442	04/10/20 07:47	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311753	04/01/20 08:27	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313140	04/16/20 23:26	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311971	04/03/20 10:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312051	04/03/20 19:26	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311642	03/31/20 09:34	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311585	03/27/20 10:09	FDS	TAL PIT

**Client Sample ID: SGWC-7**

**Lab Sample ID: 180-104108-1**

**Date Collected: 03/26/20 16:34**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312814	04/14/20 19:45	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311753	04/01/20 08:27	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313140	04/16/20 23:29	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311987	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312179	04/06/20 16:20	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311642	03/31/20 09:34	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311585	03/26/20 16:34	FDS	TAL PIT

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-104108-2**

**Date Collected: 03/26/20 16:00**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312565	04/10/20 15:10	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311753	04/01/20 08:27	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313140	04/16/20 23:33	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311987	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312179	04/06/20 16:23	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-104108-2**

**Date Collected: 03/26/20 16:00**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311642	03/31/20 09:34	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311585	03/26/20 16:00	FDS	TAL PIT

**Client Sample ID: SGWC-18**

**Lab Sample ID: 180-104108-3**

**Date Collected: 03/26/20 16:38**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312565	04/10/20 15:26	SAC	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		10			312565	04/10/20 15:41	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311753	04/01/20 08:27	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313140	04/16/20 23:36	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311987	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312179	04/06/20 16:24	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311642	03/31/20 09:34	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			311585	03/26/20 16:38	FDS	TAL PIT

**Client Sample ID: FB-3 (AP)**

**Lab Sample ID: 180-104108-4**

**Date Collected: 03/26/20 17:00**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312565	04/10/20 16:29	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311753	04/01/20 08:27	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			313140	04/16/20 23:39	WTR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311987	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			312179	04/06/20 16:25	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311642	03/31/20 09:34	AVS	TAL PIT

**Laboratory References:**

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

NAM = Nicole Marfisi

RSK = Robert Kurtz

SAC = Shawn Clemente

WTR = Bill Reinheimer

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWA-5**

**Lab Sample ID: 180-103766-1**

Date Collected: 03/17/20 14:25

Matrix: Water

Date Received: 03/19/20 08:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.32	mg/L			04/05/20 04:29	1
Fluoride	0.030	J	0.10	0.026	mg/L			04/05/20 04:29	1
Sulfate	0.55	J	1.0	0.38	mg/L			04/05/20 04:29	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 02:29	1
Barium	0.010		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 02:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 02:29	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 02:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 02:29	1
Calcium	1.7		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 02:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 02:29	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 02:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 02:29	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 07:30	04/03/20 02:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 07:30	04/03/20 02:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 02:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 02:29	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		10	10	mg/L			03/21/20 08:52	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.63				SU			03/17/20 14:25	1

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-103766-2**

Date Collected: 03/17/20 15:38

Matrix: Water

Date Received: 03/19/20 08:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.32	mg/L			04/05/20 04:45	1
Fluoride	0.029	J	0.10	0.026	mg/L			04/05/20 04:45	1
Sulfate	1.6		1.0	0.38	mg/L			04/05/20 04:45	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 02:32	1
Barium	0.037		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 02:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 02:32	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 02:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 02:32	1
Calcium	5.3		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 02:32	1
Chromium	0.018		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 02:32	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-103766-2**

Date Collected: 03/17/20 15:38

Matrix: Water

Date Received: 03/19/20 08:30

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 02:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 02:32	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 07:30	04/03/20 02:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 07:30	04/03/20 02:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 02:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 02:32	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		10	10	mg/L			03/21/20 08:52	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.87				SU			03/17/20 15:38	1

**Client Sample ID: SGWA-2**

**Lab Sample ID: 180-103766-3**

Date Collected: 03/17/20 14:30

Matrix: Water

Date Received: 03/19/20 08:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.32	mg/L			04/05/20 05:01	1
Fluoride	0.038	J	0.10	0.026	mg/L			04/05/20 05:01	1
Sulfate	0.78	J	1.0	0.38	mg/L			04/05/20 05:01	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 02:36	1
Barium	0.039		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 02:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 02:36	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 02:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 02:36	1
Calcium	11		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 02:36	1
Chromium	0.014		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 02:36	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 02:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 02:36	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 07:30	04/03/20 02:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 07:30	04/03/20 02:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 02:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 02:36	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:08	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWA-2**

**Lab Sample ID: 180-103766-3**

Date Collected: 03/17/20 14:30

Matrix: Water

Date Received: 03/19/20 08:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			03/21/20 08:52	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.83				SU			03/17/20 14:30	1

**Client Sample ID: SGWA-25**

**Lab Sample ID: 180-103766-4**

Date Collected: 03/17/20 15:45

Matrix: Water

Date Received: 03/19/20 08:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.32	mg/L			04/05/20 05:48	1
Fluoride	0.041	J	0.10	0.026	mg/L			04/05/20 05:48	1
Sulfate	0.61	J	1.0	0.38	mg/L			04/05/20 05:48	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 02:46	1
Barium	0.025		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 02:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 02:46	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 02:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 02:46	1
Calcium	8.8		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 02:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 02:46	1
Cobalt	0.0039		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 02:46	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 02:46	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 07:30	04/03/20 02:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 07:30	04/03/20 02:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 02:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 02:46	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L			03/21/20 08:52	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.02				SU			03/17/20 15:45	1

**Client Sample ID: FB-1(AP)**

**Lab Sample ID: 180-103766-5**

Date Collected: 03/17/20 00:00

Matrix: Water

Date Received: 03/19/20 08:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/05/20 06:04	1
Fluoride	0.030	J	0.10	0.026	mg/L			04/05/20 06:04	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: FB-1(AP)**

**Lab Sample ID: 180-103766-5**

Date Collected: 03/17/20 00:00

Matrix: Water

Date Received: 03/19/20 08:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.38		1.0	0.38	mg/L			04/05/20 06:04	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 02:50	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 02:50	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 02:50	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 02:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 02:50	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 02:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 02:50	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 02:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 02:50	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 07:30	04/03/20 02:50	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 07:30	04/03/20 02:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 02:50	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 02:50	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/21/20 08:52	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.63				SU			03/17/20 00:00	1

**Client Sample ID: SGWA-1**

**Lab Sample ID: 180-103814-1**

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.32	mg/L			04/07/20 06:30	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 06:30	1
Sulfate	1.2		1.0	0.38	mg/L			04/07/20 06:30	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 15:28	04/11/20 19:06	1
Barium	0.046		0.010	0.0016	mg/L		03/25/20 15:28	04/11/20 19:06	1
Beryllium	0.00029	J ^	0.0025	0.00018	mg/L		03/25/20 15:28	04/11/20 19:06	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 15:28	04/11/20 19:06	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 15:28	04/11/20 19:06	1
Calcium	1.8		0.50	0.13	mg/L		03/25/20 15:28	04/11/20 19:06	1
Chromium	0.0024		0.0020	0.0015	mg/L		03/25/20 15:28	04/11/20 19:06	1
Cobalt	0.0021	J B	0.0025	0.00013	mg/L		03/25/20 15:28	04/11/20 19:06	1
Lead	0.00022	J B	0.0010	0.00013	mg/L		03/25/20 15:28	04/11/20 19:06	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWA-1**

**Lab Sample ID: 180-103814-1**

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 09:00

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 15:28	04/11/20 19:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 15:28	04/11/20 19:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 15:28	04/11/20 19:06	1
<b>Thallium</b>	<b>0.00049</b>	<b>J B</b>	0.0010	0.00015	mg/L		03/25/20 15:28	04/11/20 19:06	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>25</b>		10	10	mg/L			03/24/20 08:00	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.37</b>				SU			03/18/20 14:50	1

**Client Sample ID: SGWA-4**

**Lab Sample ID: 180-103814-2**

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.5</b>		1.0	0.32	mg/L			04/07/20 14:40	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 14:40	1
<b>Sulfate</b>	<b>1.3</b>		1.0	0.38	mg/L			04/07/20 14:40	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 15:29	04/02/20 17:43	1
<b>Barium</b>	<b>0.071</b>		0.010	0.0016	mg/L		03/25/20 15:29	04/02/20 17:43	1
<b>Beryllium</b>	<b>0.00018</b>	<b>J</b>	0.0025	0.00018	mg/L		03/25/20 15:29	04/02/20 17:43	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 15:29	04/02/20 17:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 15:29	04/02/20 17:43	1
<b>Calcium</b>	<b>18</b>		0.50	0.13	mg/L		03/25/20 15:29	04/02/20 17:43	1
<b>Chromium</b>	<b>0.0047</b>		0.0020	0.0015	mg/L		03/25/20 15:29	04/02/20 17:43	1
<b>Cobalt</b>	<b>0.00032</b>	<b>J</b>	0.0025	0.00013	mg/L		03/25/20 15:29	04/02/20 17:43	1
<b>Lead</b>	<b>0.00021</b>	<b>J</b>	0.0010	0.00013	mg/L		03/25/20 15:29	04/02/20 17:43	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 15:29	04/02/20 17:43	1
<b>Molybdenum</b>	<b>0.00064</b>	<b>J</b>	0.015	0.00061	mg/L		03/25/20 15:29	04/02/20 17:43	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 15:29	04/02/20 17:43	1
<b>Thallium</b>	<b>0.00021</b>	<b>J</b>	0.0010	0.00015	mg/L		03/25/20 15:29	04/02/20 17:43	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>140</b>		10	10	mg/L			03/24/20 08:00	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWA-4**

**Lab Sample ID: 180-103814-2**

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 09:00

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.36				SU			03/18/20 14:50	1

**Client Sample ID: SGWA-24**

**Lab Sample ID: 180-103814-3**

Date Collected: 03/18/20 13:22

Matrix: Water

Date Received: 03/20/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.32	mg/L			04/07/20 00:45	1
Fluoride	0.078	J	0.10	0.026	mg/L			04/07/20 00:45	1
Sulfate	0.45	J	1.0	0.38	mg/L			04/07/20 00:45	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 15:29	04/02/20 17:45	1
Barium	0.023		0.010	0.0016	mg/L		03/25/20 15:29	04/02/20 17:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 15:29	04/02/20 17:45	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 15:29	04/02/20 17:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 15:29	04/02/20 17:45	1
Calcium	14		0.50	0.13	mg/L		03/25/20 15:29	04/02/20 17:45	1
Chromium	0.0047		0.0020	0.0015	mg/L		03/25/20 15:29	04/02/20 17:45	1
Cobalt	0.00016	J	0.0025	0.00013	mg/L		03/25/20 15:29	04/02/20 17:45	1
Lead	0.00022	J	0.0010	0.00013	mg/L		03/25/20 15:29	04/02/20 17:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 15:29	04/02/20 17:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 15:29	04/02/20 17:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 15:29	04/02/20 17:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 15:29	04/02/20 17:45	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 18:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			03/24/20 08:00	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.40				SU			03/18/20 13:22	1

**Client Sample ID: FD-1(AP)**

**Lab Sample ID: 180-103814-4**

Date Collected: 03/18/20 00:00

Matrix: Water

Date Received: 03/20/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.32	mg/L			04/07/20 00:29	1
Fluoride	0.086	J	0.10	0.026	mg/L			04/07/20 00:29	1
Sulfate	1.5		1.0	0.38	mg/L			04/07/20 00:29	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: FD-1(AP)**

**Lab Sample ID: 180-103814-4**

Date Collected: 03/18/20 00:00

Matrix: Water

Date Received: 03/20/20 09:00

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			03/24/20 08:00	1

**Client Sample ID: EB-1(AP)**

**Lab Sample ID: 180-103814-5**

Date Collected: 03/18/20 16:00

Matrix: Water

Date Received: 03/20/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/07/20 00:14	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 00:14	1
Sulfate	<0.38		1.0	0.38	mg/L			04/07/20 00:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/24/20 08:00	1

**Client Sample ID: SGWC-19**

**Lab Sample ID: 180-103979-1**

Date Collected: 03/23/20 17:45

Matrix: Water

Date Received: 03/25/20 09:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.32	mg/L			04/09/20 18:56	1
Fluoride	0.057	J	0.10	0.026	mg/L			04/09/20 18:56	1
Sulfate	250		5.0	1.9	mg/L			04/10/20 11:28	5

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 16:57	1
Barium	0.032		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 16:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 16:57	1
Boron	1.7		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 16:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 16:57	1
Calcium	46		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 16:57	1
Chromium	0.015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 16:57	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 16:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 16:57	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 16:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 16:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 16:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 16:57	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/01/20 17:03	04/02/20 19:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	390		10	10	mg/L			03/26/20 09:09	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: SGWC-19

Lab Sample ID: 180-103979-1

Date Collected: 03/23/20 17:45

Matrix: Water

Date Received: 03/25/20 09:30

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.51				SU			03/23/20 17:45	1

## Client Sample ID: SGWC-20

Lab Sample ID: 180-103979-2

Date Collected: 03/23/20 16:35

Matrix: Water

Date Received: 03/25/20 09:30

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.32	mg/L			04/09/20 19:11	1
Fluoride	0.25		0.10	0.026	mg/L			04/09/20 19:11	1
Sulfate	220		5.0	1.9	mg/L			04/10/20 18:19	5

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00050	J	0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 17:00	1
Barium	0.024		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 17:00	1
Beryllium	0.00077	J	0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 17:00	1
Boron	1.9		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 17:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 17:00	1
Calcium	13		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 17:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 17:00	1
Cobalt	0.22		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 17:00	1
Lead	0.00023	J	0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 17:00	1
Lithium	0.0045	J	0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 17:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 17:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 17:00	1
Thallium	0.00016	J	0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 17:00	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/01/20 17:03	04/02/20 19:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	330		10	10	mg/L			03/26/20 09:09	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.19				SU			03/23/20 16:35	1

## Client Sample ID: SGWC-21

Lab Sample ID: 180-103979-3

Date Collected: 03/23/20 16:33

Matrix: Water

Date Received: 03/25/20 09:30

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.32	mg/L			04/09/20 19:26	1
Fluoride	0.11		0.10	0.026	mg/L			04/09/20 19:26	1
Sulfate	120		1.0	0.38	mg/L			04/09/20 19:26	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-21**

**Lab Sample ID: 180-103979-3**

Date Collected: 03/23/20 16:33

Matrix: Water

Date Received: 03/25/20 09:30

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 17:04	1
<b>Barium</b>	<b>0.10</b>		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 17:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 17:04	1
<b>Boron</b>	<b>0.83</b>		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 17:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 17:04	1
<b>Calcium</b>	<b>36</b>		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 17:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 17:04	1
<b>Cobalt</b>	<b>0.00016</b>	<b>J</b>	0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 17:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 17:04	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 17:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 17:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 17:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 17:04	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/01/20 17:03	04/02/20 19:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>330</b>		10	10	mg/L			03/26/20 09:09	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.12</b>				SU			03/23/20 16:33	1

**Client Sample ID: EB-2(AP)**

**Lab Sample ID: 180-103979-4**

Date Collected: 03/23/20 18:00

Matrix: Water

Date Received: 03/25/20 09:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/09/20 18:40	1
<b>Fluoride</b>	<b>0.067</b>	<b>J</b>	0.10	0.026	mg/L			04/09/20 18:40	1
Sulfate	<0.38		1.0	0.38	mg/L			04/09/20 18:40	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 17:07	1
Barium	<0.0016		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 17:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 17:07	1
Boron	<0.039		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 17:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 17:07	1
Calcium	<0.13		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 17:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 17:07	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 17:07	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 17:07	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 17:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 17:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 17:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 17:07	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Client Sample ID: EB-2(AP)

Lab Sample ID: 180-103979-4

Date Collected: 03/23/20 18:00

Matrix: Water

Date Received: 03/25/20 09:30

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/01/20 17:03	04/02/20 19:17	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/26/20 07:50	1

## Client Sample ID: FD-2(AP)

Lab Sample ID: 180-103979-5

Date Collected: 03/23/20 00:00

Matrix: Water

Date Received: 03/25/20 09:30

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.32	mg/L			04/09/20 19:42	1
Fluoride	0.28		0.10	0.026	mg/L			04/09/20 19:42	1
Sulfate	220		5.0	1.9	mg/L			04/10/20 11:44	5

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00047	J	0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 17:10	1
Barium	0.025		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 17:10	1
Beryllium	0.00067	J	0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 17:10	1
Boron	1.7		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 17:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 17:10	1
Calcium	13		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 17:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 17:10	1
Cobalt	0.21		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 17:10	1
Lead	0.00019	J	0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 17:10	1
Lithium	0.0039	J	0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 17:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 17:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 17:10	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 17:10	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/01/20 17:03	04/02/20 19:18	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10	10	mg/L			03/26/20 09:09	1

## Client Sample ID: SGWC-17

Lab Sample ID: 180-104016-1

Date Collected: 03/24/20 12:02

Matrix: Water

Date Received: 03/26/20 09:00

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		1.0	0.32	mg/L			04/09/20 01:06	1
Fluoride	0.058	J	0.10	0.026	mg/L			04/09/20 01:06	1
Sulfate	190		1.0	0.38	mg/L			04/09/20 01:06	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-17**

**Lab Sample ID: 180-104016-1**

Date Collected: 03/24/20 12:02

Matrix: Water

Date Received: 03/26/20 09:00

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 00:45	04/15/20 15:08	1
<b>Barium</b>	<b>0.024</b>		0.010	0.0016	mg/L		03/30/20 00:45	04/15/20 15:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 00:45	04/15/20 15:08	1
<b>Boron</b>	<b>0.37</b>		0.080	0.039	mg/L		03/30/20 00:45	04/15/20 15:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 00:45	04/15/20 15:08	1
<b>Calcium</b>	<b>58</b>		0.50	0.13	mg/L		03/30/20 00:45	04/15/20 15:08	1
<b>Chromium</b>	<b>0.0079</b>		0.0020	0.0015	mg/L		03/30/20 00:45	04/15/20 15:08	1
<b>Cobalt</b>	<b>0.00044</b>	<b>J</b>	0.0025	0.00013	mg/L		03/30/20 00:45	04/15/20 15:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 00:45	04/15/20 15:08	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 00:45	04/15/20 15:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 00:45	04/15/20 15:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 00:45	04/15/20 15:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 00:45	04/15/20 15:08	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>430</b>		10	10	mg/L			03/27/20 08:47	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.21</b>				SU			03/24/20 12:02	1

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-104016-2**

Date Collected: 03/24/20 10:05

Matrix: Water

Date Received: 03/26/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.1</b>		1.0	0.32	mg/L			04/09/20 01:22	1
<b>Fluoride</b>	<b>0.081</b>	<b>J</b>	0.10	0.026	mg/L			04/09/20 01:22	1
<b>Sulfate</b>	<b>71</b>		1.0	0.38	mg/L			04/09/20 01:22	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 00:45	04/15/20 15:12	1
<b>Barium</b>	<b>0.065</b>		0.010	0.0016	mg/L		03/30/20 00:45	04/15/20 15:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 00:45	04/15/20 15:12	1
<b>Boron</b>	<b>0.55</b>		0.080	0.039	mg/L		03/30/20 00:45	04/15/20 15:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 00:45	04/15/20 15:12	1
<b>Calcium</b>	<b>22</b>		0.50	0.13	mg/L		03/30/20 00:45	04/15/20 15:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 00:45	04/15/20 15:12	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/30/20 00:45	04/15/20 15:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 00:45	04/15/20 15:12	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 00:45	04/15/20 15:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 00:45	04/15/20 15:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 00:45	04/15/20 15:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 00:45	04/15/20 15:12	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-104016-2**

Date Collected: 03/24/20 10:05

Matrix: Water

Date Received: 03/26/20 09:00

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			03/27/20 08:47	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.00				SU			03/24/20 10:05	1

**Client Sample ID: SGWC-22**

**Lab Sample ID: 180-104016-3**

Date Collected: 03/24/20 08:48

Matrix: Water

Date Received: 03/26/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.32	mg/L			04/09/20 01:38	1
Fluoride	<0.026		0.10	0.026	mg/L			04/09/20 01:38	1
Sulfate	100		1.0	0.38	mg/L			04/09/20 01:38	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 00:45	04/15/20 15:15	1
Barium	0.081		0.010	0.0016	mg/L		03/30/20 00:45	04/15/20 15:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 00:45	04/15/20 15:15	1
Boron	0.34		0.080	0.039	mg/L		03/30/20 00:45	04/15/20 15:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 00:45	04/15/20 15:15	1
Calcium	31		0.50	0.13	mg/L		03/30/20 00:45	04/15/20 15:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 00:45	04/15/20 15:15	1
Cobalt	0.0016	J	0.0025	0.00013	mg/L		03/30/20 00:45	04/15/20 15:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 00:45	04/15/20 15:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 00:45	04/15/20 15:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 00:45	04/15/20 15:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 00:45	04/15/20 15:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 00:45	04/15/20 15:15	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		10	10	mg/L			03/27/20 08:47	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.62				SU			03/24/20 08:48	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: FB-2(AP)**

**Lab Sample ID: 180-104016-4**

**Date Collected: 03/24/20 08:30**

**Matrix: Water**

**Date Received: 03/26/20 09:00**

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/09/20 02:25	1
Fluoride	<0.026		0.10	0.026	mg/L			04/09/20 02:25	1
<b>Sulfate</b>	<b>0.71</b>	<b>J</b>	1.0	0.38	mg/L			04/09/20 02:25	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 00:45	04/15/20 15:18	1
Barium	<0.0016		0.010	0.0016	mg/L		03/30/20 00:45	04/15/20 15:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 00:45	04/15/20 15:18	1
Boron	<0.039		0.080	0.039	mg/L		03/30/20 00:45	04/15/20 15:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 00:45	04/15/20 15:18	1
Calcium	<0.13		0.50	0.13	mg/L		03/30/20 00:45	04/15/20 15:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 00:45	04/15/20 15:18	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/30/20 00:45	04/15/20 15:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 00:45	04/15/20 15:18	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 00:45	04/15/20 15:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 00:45	04/15/20 15:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 00:45	04/15/20 15:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 00:45	04/15/20 15:18	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/27/20 08:47	1

**Client Sample ID: SGWC-6**

**Lab Sample ID: 180-104069-1**

**Date Collected: 03/25/20 11:29**

**Matrix: Water**

**Date Received: 03/27/20 09:00**

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.3</b>		1.0	0.32	mg/L			04/10/20 12:32	1
<b>Fluoride</b>	<b>0.13</b>		0.10	0.026	mg/L			04/10/20 12:32	1
<b>Sulfate</b>	<b>0.58</b>	<b>J</b>	1.0	0.38	mg/L			04/10/20 12:32	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00044</b>	<b>J</b>	0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 15:51	1
<b>Barium</b>	<b>0.12</b>		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 15:51	1
<b>Beryllium</b>	<b>0.00020</b>	<b>J</b>	0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 15:51	1
Boron	<0.039		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 15:51	1
<b>Cadmium</b>	<b>0.00022</b>	<b>J</b>	0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 15:51	1
<b>Calcium</b>	<b>11</b>		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 15:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 15:51	1
<b>Cobalt</b>	<b>0.00027</b>	<b>J</b>	0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 15:51	1
<b>Lead</b>	<b>0.00020</b>	<b>J</b>	0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 15:51	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 15:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 15:51	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-6**

**Lab Sample ID: 180-104069-1**

Date Collected: 03/25/20 11:29

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 15:51	1
<b>Thallium</b>	<b>0.00049</b>	<b>J</b>	0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 15:51	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 15:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>94</b>		10	10	mg/L			03/28/20 08:31	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.31</b>				SU			03/25/20 11:29	1

**Client Sample ID: SGWC-8**

**Lab Sample ID: 180-104069-2**

Date Collected: 03/25/20 09:15

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>10</b>		1.0	0.32	mg/L			04/10/20 14:38	1
<b>Fluoride</b>	<b>0.31</b>		0.10	0.026	mg/L			04/10/20 14:38	1
<b>Sulfate</b>	<b>62</b>		1.0	0.38	mg/L			04/10/20 14:38	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00063</b>	<b>J</b>	0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 16:07	1
<b>Barium</b>	<b>0.19</b>		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 16:07	1
<b>Beryllium</b>	<b>0.00030</b>	<b>J</b>	0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 16:07	1
<b>Boron</b>	<b>0.089</b>		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 16:07	1
<b>Cadmium</b>	<b>0.00031</b>	<b>J</b>	0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 16:07	1
<b>Calcium</b>	<b>48</b>		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 16:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 16:07	1
<b>Cobalt</b>	<b>0.00032</b>	<b>J</b>	0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 16:07	1
<b>Lead</b>	<b>0.00029</b>	<b>J</b>	0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 16:07	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 16:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 16:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 16:07	1
<b>Thallium</b>	<b>0.00079</b>	<b>J</b>	0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 16:07	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 15:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>360</b>		10	10	mg/L			03/28/20 08:31	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.35</b>				SU			03/25/20 09:15	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-104069-3**

Date Collected: 03/25/20 09:18

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.32	mg/L			04/10/20 13:35	1
Fluoride	0.079	J	0.10	0.026	mg/L			04/10/20 13:35	1
Sulfate	300		5.0	1.9	mg/L			04/10/20 13:51	5

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 16:17	1
Barium	0.066		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 16:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 16:17	1
Boron	1.6		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 16:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 16:17	1
Calcium	55		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 16:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 16:17	1
Cobalt	0.0064		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 16:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 16:17	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 16:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 16:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 16:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 16:17	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	540		10	10	mg/L			03/28/20 08:31	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.01				SU			03/25/20 09:18	1

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-104069-4**

Date Collected: 03/25/20 11:03

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		1.0	0.32	mg/L			04/10/20 14:07	1
Fluoride	0.031	J	0.10	0.026	mg/L			04/10/20 14:07	1
Sulfate	14		1.0	0.38	mg/L			04/10/20 14:07	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 16:21	1
Barium	0.036		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 16:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 16:21	1
Boron	0.12		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 16:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 16:21	1
Calcium	2.9		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 16:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 16:21	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-104069-4**

Date Collected: 03/25/20 11:03

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cobalt</b>	<b>0.029</b>		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 16:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 16:21	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 16:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 16:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 16:21	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 16:21	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>59</b>		10	10	mg/L			03/28/20 08:31	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.26</b>				SU			03/25/20 11:03	1

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-104069-5**

Date Collected: 03/25/20 11:56

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.0</b>		1.0	0.32	mg/L			04/10/20 14:22	1
<b>Fluoride</b>	<b>0.058</b>	<b>J</b>	0.10	0.026	mg/L			04/10/20 14:22	1
<b>Sulfate</b>	<b>0.58</b>	<b>J</b>	1.0	0.38	mg/L			04/10/20 14:22	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 16:24	1
<b>Barium</b>	<b>0.046</b>		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 16:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 16:24	1
<b>Boron</b>	<b>0.45</b>		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 16:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 16:24	1
<b>Calcium</b>	<b>2.0</b>		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 16:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 16:24	1
<b>Cobalt</b>	<b>0.024</b>		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 16:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 16:24	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 16:24	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 16:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 16:24	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 16:24	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:02	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-104069-5**

Date Collected: 03/25/20 11:56

Matrix: Water

Date Received: 03/27/20 09:00

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	38		10	10	mg/L			03/28/20 08:31	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.16				SU			03/25/20 11:56	1

**Client Sample ID: EB-3(AP)**

**Lab Sample ID: 180-104069-6**

Date Collected: 03/25/20 11:40

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/10/20 13:19	1
Fluoride	<0.026		0.10	0.026	mg/L			04/10/20 13:19	1
Sulfate	<0.38		1.0	0.38	mg/L			04/10/20 13:19	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 16:27	1
Barium	<0.0016		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 16:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 16:27	1
Boron	<0.039		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 16:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 16:27	1
Calcium	<0.13		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 16:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 16:27	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 16:27	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 16:27	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 16:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 16:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 16:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 16:27	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/28/20 08:31	1

**Client Sample ID: FD-3(AP)**

**Lab Sample ID: 180-104069-7**

Date Collected: 03/25/20 00:00

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.32	mg/L			04/10/20 14:54	1
Fluoride	<0.026		0.10	0.026	mg/L			04/10/20 14:54	1
Sulfate	0.56	J	1.0	0.38	mg/L			04/10/20 14:54	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: FD-3(AP)**

**Lab Sample ID: 180-104069-7**

Date Collected: 03/25/20 00:00

Matrix: Water

Date Received: 03/27/20 09:00

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 16:31	1
<b>Barium</b>	<b>0.044</b>		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 16:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 16:31	1
<b>Boron</b>	<b>0.51</b>		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 16:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 16:31	1
<b>Calcium</b>	<b>2.0</b>		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 16:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 16:31	1
<b>Cobalt</b>	<b>0.024</b>		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 16:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 16:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 16:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 16:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 16:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 16:31	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>39</b>		10	10	mg/L			03/28/20 08:31	1

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-104107-1**

Date Collected: 03/27/20 09:16

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.0</b>		1.0	0.32	mg/L			04/10/20 06:59	1
<b>Fluoride</b>	<b>0.045</b>	J	0.10	0.026	mg/L			04/10/20 06:59	1
<b>Sulfate</b>	<b>81</b>		1.0	0.38	mg/L			04/10/20 06:59	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 22:57	1
<b>Barium</b>	<b>0.034</b>		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 22:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 22:57	1
<b>Boron</b>	<b>0.49</b>		0.080	0.039	mg/L		04/01/20 08:27	04/16/20 22:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 22:57	1
<b>Calcium</b>	<b>18</b>		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 22:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 22:57	1
<b>Cobalt</b>	<b>0.0020</b>	J	0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 22:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 22:57	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 22:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 22:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 22:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 22:57	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:23	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-104107-1**

Date Collected: 03/27/20 09:16

Matrix: Water

Date Received: 03/28/20 10:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			03/31/20 09:34	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.89				SU			03/27/20 09:16	1

**Client Sample ID: SGWC-14**

**Lab Sample ID: 180-104107-2**

Date Collected: 03/27/20 10:04

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.32	mg/L			04/10/20 07:15	1
Fluoride	0.041	J	0.10	0.026	mg/L			04/10/20 07:15	1
Sulfate	180		1.0	0.38	mg/L			04/10/20 07:15	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0014		0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 23:13	1
Barium	0.049		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 23:13	1
Beryllium	0.00053	J	0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 23:13	1
Boron	1.5		0.080	0.039	mg/L		04/01/20 08:27	04/16/20 23:13	1
Cadmium	0.00057	J	0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 23:13	1
Calcium	41		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 23:13	1
Chromium	0.0019	J	0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 23:13	1
Cobalt	0.0093		0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 23:13	1
Lead	0.00066	J	0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 23:13	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 23:13	1
Molybdenum	0.00081	J	0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 23:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 23:13	1
Thallium	0.0011		0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 23:13	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	330		10	10	mg/L			03/31/20 09:34	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.74				SU			03/27/20 10:04	1

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-104107-3**

Date Collected: 03/27/20 08:46

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.32	mg/L			04/10/20 07:31	1
Fluoride	0.13		0.10	0.026	mg/L			04/10/20 07:31	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-104107-3**

Date Collected: 03/27/20 08:46

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	190		1.0	0.38	mg/L			04/10/20 07:31	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0016		0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 23:16	1
Barium	0.028		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 23:16	1
Beryllium	0.00059	J	0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 23:16	1
Boron	1.4		0.080	0.039	mg/L		04/01/20 08:27	04/16/20 23:16	1
Cadmium	0.00042	J	0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 23:16	1
Calcium	17		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 23:16	1
Chromium	0.034		0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 23:16	1
Cobalt	0.28		0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 23:16	1
Lead	0.00023	J	0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 23:16	1
Lithium	0.0038	J	0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 23:16	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 23:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 23:16	1
Thallium	0.00045	J	0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 23:16	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	330		10	10	mg/L			03/31/20 09:34	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.51				SU			03/27/20 08:46	1

**Client Sample ID: SGWC-16**

**Lab Sample ID: 180-104107-4**

Date Collected: 03/27/20 10:09

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.32	mg/L			04/10/20 07:47	1
Fluoride	0.027	J	0.10	0.026	mg/L			04/10/20 07:47	1
Sulfate	35		1.0	0.38	mg/L			04/10/20 07:47	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 23:26	1
Barium	0.027		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 23:26	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 23:26	1
Boron	0.59		0.080	0.039	mg/L		04/01/20 08:27	04/16/20 23:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 23:26	1
Calcium	1.5		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 23:26	1
Chromium	0.011		0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 23:26	1
Cobalt	0.0047		0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 23:26	1
Lead	0.00013	J	0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 23:26	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-16**

**Lab Sample ID: 180-104107-4**

Date Collected: 03/27/20 10:09

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 23:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 23:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 23:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 23:26	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	99		10	10	mg/L			03/31/20 09:34	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.17				SU			03/27/20 10:09	1

**Client Sample ID: SGWC-7**

**Lab Sample ID: 180-104108-1**

Date Collected: 03/26/20 16:34

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.32	mg/L			04/14/20 19:45	1
Fluoride	0.14		0.10	0.026	mg/L			04/14/20 19:45	1
Sulfate	15		1.0	0.38	mg/L			04/14/20 19:45	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 23:29	1
Barium	0.23		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 23:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 23:29	1
Boron	0.055	J	0.080	0.039	mg/L		04/01/20 08:27	04/16/20 23:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 23:29	1
Calcium	21		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 23:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 23:29	1
Cobalt	0.0033		0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 23:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 23:29	1
Lithium	0.0060		0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 23:29	1
Molybdenum	0.0010	J	0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 23:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 23:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 23:29	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			03/31/20 09:34	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-7**

Date Collected: 03/26/20 16:34

Date Received: 03/28/20 10:30

**Lab Sample ID: 180-104108-1**

Matrix: Water

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.52				SU			03/26/20 16:34	1

**Client Sample ID: SGWC-12**

Date Collected: 03/26/20 16:00

Date Received: 03/28/20 10:30

**Lab Sample ID: 180-104108-2**

Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		1.0	0.32	mg/L			04/10/20 15:10	1
Fluoride	0.081	J	0.10	0.026	mg/L			04/10/20 15:10	1
Sulfate	44		1.0	0.38	mg/L			04/10/20 15:10	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00032	J	0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 23:33	1
Barium	0.051		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 23:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 23:33	1
Boron	<0.039		0.080	0.039	mg/L		04/01/20 08:27	04/16/20 23:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 23:33	1
Calcium	22		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 23:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 23:33	1
Cobalt	0.0024	J	0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 23:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 23:33	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 23:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 23:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 23:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 23:33	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			03/31/20 09:34	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.10				SU			03/26/20 16:00	1

**Client Sample ID: SGWC-18**

Date Collected: 03/26/20 16:38

Date Received: 03/28/20 10:30

**Lab Sample ID: 180-104108-3**

Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.32	mg/L			04/10/20 15:26	1
Fluoride	0.091	J	0.10	0.026	mg/L			04/10/20 15:26	1
Sulfate	1000		10	3.8	mg/L			04/10/20 15:41	10

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: SGWC-18**

**Lab Sample ID: 180-104108-3**

Date Collected: 03/26/20 16:38

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0047		0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 23:36	1
Barium	0.020		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 23:36	1
Beryllium	0.00033	J	0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 23:36	1
Boron	6.0		0.080	0.039	mg/L		04/01/20 08:27	04/16/20 23:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 23:36	1
Calcium	81		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 23:36	1
Chromium	0.0096		0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 23:36	1
Cobalt	0.15		0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 23:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 23:36	1
Lithium	0.0046	J	0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 23:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 23:36	1
Selenium	0.0019	J	0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 23:36	1
Thallium	0.00029	J	0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 23:36	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10	10	mg/L			03/31/20 09:34	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.74				SU			03/26/20 16:38	1

**Client Sample ID: FB-3 (AP)**

**Lab Sample ID: 180-104108-4**

Date Collected: 03/26/20 17:00

Matrix: Water

Date Received: 03/28/20 10:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/10/20 16:29	1
Fluoride	<0.026		0.10	0.026	mg/L			04/10/20 16:29	1
Sulfate	<0.38		1.0	0.38	mg/L			04/10/20 16:29	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 23:39	1
Barium	<0.0016		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 23:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 23:39	1
Boron	0.087		0.080	0.039	mg/L		04/01/20 08:27	04/16/20 23:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 23:39	1
Calcium	<0.13		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 23:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 23:39	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 23:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 23:39	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 23:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 23:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 23:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 23:39	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

**Client Sample ID: FB-3 (AP)**

**Lab Sample ID: 180-104108-4**

**Date Collected: 03/26/20 17:00**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

## Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:25	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/31/20 09:34	1

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-312070/6**  
**Matrix: Water**  
**Analysis Batch: 312070**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/04/20 16:30	1
Fluoride	<0.026		0.10	0.026	mg/L			04/04/20 16:30	1
Sulfate	<0.38		1.0	0.38	mg/L			04/04/20 16:30	1

**Lab Sample ID: LCS 180-312070/5**  
**Matrix: Water**  
**Analysis Batch: 312070**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.7		mg/L		99	90 - 110
Fluoride	2.50	2.40		mg/L		96	90 - 110
Sulfate	50.0	48.8		mg/L		98	90 - 110

**Lab Sample ID: 180-103798-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 312070**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.9		25.0	34.6		mg/L		103	80 - 120
Fluoride	0.059	J	1.25	1.33		mg/L		102	80 - 120
Sulfate	20		25.0	45.4		mg/L		103	80 - 120

**Lab Sample ID: 180-103798-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 312070**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.9		25.0	32.5		mg/L		94	80 - 120	6	20
Fluoride	0.059	J	1.25	1.19		mg/L		90	80 - 120	12	20
Sulfate	20		25.0	42.1		mg/L		90	80 - 120	8	20

**Lab Sample ID: MB 180-312143/6**  
**Matrix: Water**  
**Analysis Batch: 312143**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/06/20 15:26	1
Fluoride	<0.026		0.10	0.026	mg/L			04/06/20 15:26	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 15:26	1

**Lab Sample ID: LCS 180-312143/5**  
**Matrix: Water**  
**Analysis Batch: 312143**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.3		mg/L		101	90 - 110
Fluoride	2.50	2.75		mg/L		110	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-103810-A-2 MS**  
**Matrix: Water**  
**Analysis Batch: 312143**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.8		25.0	26.2		mg/L		98	80 - 120
Fluoride	0.056	J	1.25	1.38		mg/L		106	80 - 120
Sulfate	0.65	J	25.0	25.0		mg/L		98	80 - 120

**Lab Sample ID: 180-103810-A-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 312143**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.8		25.0	25.9		mg/L		97	80 - 120	1	20
Fluoride	0.056	J	1.25	1.37		mg/L		105	80 - 120	0	20
Sulfate	0.65	J	25.0	24.9		mg/L		97	80 - 120	1	20

**Lab Sample ID: MB 180-312144/56**  
**Matrix: Water**  
**Analysis Batch: 312144**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/07/20 05:11	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 05:11	1
Sulfate	<0.38		1.0	0.38	mg/L			04/07/20 05:11	1

**Lab Sample ID: LCS 180-312144/55**  
**Matrix: Water**  
**Analysis Batch: 312144**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.1		mg/L		96	90 - 110
Fluoride	2.50	2.32		mg/L		93	90 - 110
Sulfate	50.0	47.9		mg/L		96	90 - 110

**Lab Sample ID: 180-103814-1 MS**  
**Matrix: Water**  
**Analysis Batch: 312144**

**Client Sample ID: SGWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.0		25.0	26.5		mg/L		98	80 - 120
Fluoride	<0.026		1.25	1.21		mg/L		97	80 - 120
Sulfate	1.2		25.0	25.0		mg/L		95	80 - 120

**Lab Sample ID: 180-103814-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 312144**

**Client Sample ID: SGWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.0		25.0	25.0		mg/L		92	80 - 120	6	20
Fluoride	<0.026		1.25	1.12		mg/L		90	80 - 120	8	20
Sulfate	1.2		25.0	23.2		mg/L		88	80 - 120	7	20

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-103814-2 MS**  
**Matrix: Water**  
**Analysis Batch: 312144**

**Client Sample ID: SGWA-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	26.0		mg/L		98	80 - 120
Fluoride	<0.026		1.25	1.22		mg/L		98	80 - 120
Sulfate	1.3		25.0	25.1		mg/L		95	80 - 120

**Lab Sample ID: 180-103814-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 312144**

**Client Sample ID: SGWA-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	26.1		mg/L		99	80 - 120	1	20
Fluoride	<0.026		1.25	1.24		mg/L		99	80 - 120	2	20
Sulfate	1.3		25.0	25.6		mg/L		97	80 - 120	2	20

**Lab Sample ID: MB 180-312386/6**  
**Matrix: Water**  
**Analysis Batch: 312386**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/08/20 17:51	1
Fluoride	<0.026		0.10	0.026	mg/L			04/08/20 17:51	1
Sulfate	<0.38		1.0	0.38	mg/L			04/08/20 17:51	1

**Lab Sample ID: LCS 180-312386/5**  
**Matrix: Water**  
**Analysis Batch: 312386**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.3		mg/L		99	90 - 110
Fluoride	2.50	2.35		mg/L		94	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110

**Lab Sample ID: 180-104016-3 MS**  
**Matrix: Water**  
**Analysis Batch: 312386**

**Client Sample ID: SGWC-22**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10		25.0	34.7		mg/L		98	80 - 120
Fluoride	<0.026		1.25	1.15		mg/L		92	80 - 120
Sulfate	100		25.0	124	4	mg/L		85	80 - 120

**Lab Sample ID: 180-104016-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 312386**

**Client Sample ID: SGWC-22**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		25.0	34.3		mg/L		96	80 - 120	1	20
Fluoride	<0.026		1.25	1.14		mg/L		91	80 - 120	1	20
Sulfate	100		25.0	122	4	mg/L		77	80 - 120	2	20

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 180-312442/6**  
**Matrix: Water**  
**Analysis Batch: 312442**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/09/20 08:58	1
Fluoride	<0.026		0.10	0.026	mg/L			04/09/20 08:58	1
Sulfate	<0.38		1.0	0.38	mg/L			04/09/20 08:58	1

**Lab Sample ID: LCS 180-312442/5**  
**Matrix: Water**  
**Analysis Batch: 312442**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.9		mg/L		102	90 - 110
Fluoride	2.50	2.62		mg/L		105	90 - 110
Sulfate	50.0	50.3		mg/L		101	90 - 110

**Lab Sample ID: 180-104008-D-1 MS**  
**Matrix: Water**  
**Analysis Batch: 312442**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.4		25.0	28.0		mg/L		102	80 - 120
Fluoride	0.063	J	1.25	1.36		mg/L		104	80 - 120
Sulfate	7.1		25.0	32.4		mg/L		101	80 - 120

**Lab Sample ID: 180-104008-D-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 312442**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.4		25.0	27.1		mg/L		99	80 - 120	3	20
Fluoride	0.063	J	1.25	1.31		mg/L		100	80 - 120	4	20
Sulfate	7.1		25.0	31.4		mg/L		97	80 - 120	3	20

**Lab Sample ID: 180-104309-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 312442**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	0.85	J	25.0	25.4		mg/L		98	80 - 120
Fluoride	0.11		1.25	1.37		mg/L		101	80 - 120
Sulfate	4.0		25.0	28.1		mg/L		96	80 - 120

**Lab Sample ID: 180-104309-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 312442**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	0.85	J	25.0	26.2		mg/L		101	80 - 120	3	20
Fluoride	0.11		1.25	1.41		mg/L		104	80 - 120	3	20
Sulfate	4.0		25.0	29.0		mg/L		100	80 - 120	3	20

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 180-312565/6**  
**Matrix: Water**  
**Analysis Batch: 312565**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/10/20 09:53	1
Fluoride	<0.026		0.10	0.026	mg/L			04/10/20 09:53	1
Sulfate	<0.38		1.0	0.38	mg/L			04/10/20 09:53	1

**Lab Sample ID: LCS 180-312565/5**  
**Matrix: Water**  
**Analysis Batch: 312565**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.3		mg/L		101	90 - 110
Fluoride	2.50	2.63		mg/L		105	90 - 110
Sulfate	50.0	49.3		mg/L		99	90 - 110

**Lab Sample ID: 180-104441-E-1 MS**  
**Matrix: Water**  
**Analysis Batch: 312565**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.7		25.0	30.7		mg/L		100	80 - 120
Fluoride	0.15		1.25	1.41		mg/L		101	80 - 120
Sulfate	63		25.0	86.1		mg/L		94	80 - 120

**Lab Sample ID: 180-104441-E-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 312565**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.7		25.0	30.1		mg/L		97	80 - 120	2	20
Fluoride	0.15		1.25	1.39		mg/L		99	80 - 120	1	20
Sulfate	63		25.0	85.1		mg/L		90	80 - 120	1	20

**Lab Sample ID: MB 180-312814/6**  
**Matrix: Water**  
**Analysis Batch: 312814**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			04/14/20 15:46	1
Fluoride	<0.026		0.10	0.026	mg/L			04/14/20 15:46	1
Sulfate	<0.38		1.0	0.38	mg/L			04/14/20 15:46	1

**Lab Sample ID: LCS 180-312814/5**  
**Matrix: Water**  
**Analysis Batch: 312814**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.4		mg/L		103	90 - 110
Fluoride	2.50	2.54		mg/L		102	90 - 110
Sulfate	50.0	51.4		mg/L		103	90 - 110

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 180-311032/1-A**  
**Matrix: Water**  
**Analysis Batch: 311959**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311032**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 07:30	04/03/20 01:26	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 07:30	04/03/20 01:26	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 07:30	04/03/20 01:26	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 07:30	04/03/20 01:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 07:30	04/03/20 01:26	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 07:30	04/03/20 01:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 07:30	04/03/20 01:26	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 07:30	04/03/20 01:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 07:30	04/03/20 01:26	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 07:30	04/03/20 01:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 07:30	04/03/20 01:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 07:30	04/03/20 01:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 07:30	04/03/20 01:26	1

**Lab Sample ID: LCS 180-311032/2-A**  
**Matrix: Water**  
**Analysis Batch: 311959**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311032**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.888		mg/L		89	80 - 120
Barium	1.00	0.945		mg/L		95	80 - 120
Beryllium	0.500	0.460		mg/L		92	80 - 120
Boron	1.25	1.25		mg/L		100	80 - 120
Cadmium	0.500	0.484		mg/L		97	80 - 120
Calcium	25.0	26.9		mg/L		108	80 - 120
Chromium	0.500	0.475		mg/L		95	80 - 120
Cobalt	0.500	0.457		mg/L		91	80 - 120
Lead	0.500	0.480		mg/L		96	80 - 120
Lithium	0.500	0.454		mg/L		91	80 - 120
Molybdenum	0.500	0.464		mg/L		93	80 - 120
Selenium	1.00	0.941		mg/L		94	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120

**Lab Sample ID: 180-103607-C-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 311959**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0069		1.00	0.959		mg/L		95	75 - 125
Barium	0.22		1.00	1.22		mg/L		100	75 - 125
Beryllium	0.00042	J	0.500	0.476		mg/L		95	75 - 125
Boron	<0.039		1.25	1.28		mg/L		103	75 - 125
Cadmium	<0.00022		0.500	0.507		mg/L		101	75 - 125
Calcium	56		25.0	84.8		mg/L		117	75 - 125
Chromium	<0.0015		0.500	0.502		mg/L		100	75 - 125
Cobalt	0.00056	J	0.500	0.482		mg/L		96	75 - 125
Lead	0.00034	J	0.500	0.500		mg/L		100	75 - 125
Lithium	0.013		0.500	0.474		mg/L		92	75 - 125
Molybdenum	0.0054	J	0.500	0.500		mg/L		99	75 - 125

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-103607-C-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 311959**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	<0.0015		1.00	0.995		mg/L		99	75 - 125
Thallium	0.00040	J	1.00	1.07		mg/L		107	75 - 125

**Lab Sample ID: 180-103607-C-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 311959**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0069		1.00	0.939		mg/L		93	75 - 125	2	20
Barium	0.22		1.00	1.19		mg/L		97	75 - 125	3	20
Beryllium	0.00042	J	0.500	0.476		mg/L		95	75 - 125	0	20
Boron	<0.039		1.25	1.27		mg/L		101	75 - 125	1	20
Cadmium	<0.00022		0.500	0.494		mg/L		99	75 - 125	3	20
Calcium	56		25.0	82.7		mg/L		109	75 - 125	2	20
Chromium	<0.0015		0.500	0.485		mg/L		97	75 - 125	4	20
Cobalt	0.00056	J	0.500	0.471		mg/L		94	75 - 125	2	20
Lead	0.00034	J	0.500	0.488		mg/L		98	75 - 125	2	20
Lithium	0.013		0.500	0.477		mg/L		93	75 - 125	1	20
Molybdenum	0.0054	J	0.500	0.486		mg/L		96	75 - 125	3	20
Selenium	<0.0015		1.00	0.963		mg/L		96	75 - 125	3	20
Thallium	0.00040	J	1.00	1.04		mg/L		104	75 - 125	3	20

**Lab Sample ID: MB 180-311118/1-A**  
**Matrix: Water**  
**Analysis Batch: 312766**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311118**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 15:28	04/11/20 17:19	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 15:28	04/11/20 17:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 15:28	04/11/20 17:19	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 15:28	04/11/20 17:19	1
Cadmium	0.000223	J	0.0025	0.00022	mg/L		03/25/20 15:28	04/11/20 17:19	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 15:28	04/11/20 17:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 15:28	04/11/20 17:19	1
Cobalt	0.000183	J	0.0025	0.00013	mg/L		03/25/20 15:28	04/11/20 17:19	1
Lead	0.000288	J	0.0010	0.00013	mg/L		03/25/20 15:28	04/11/20 17:19	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 15:28	04/11/20 17:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 15:28	04/11/20 17:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 15:28	04/11/20 17:19	1
Thallium	0.000546	J	0.0010	0.00015	mg/L		03/25/20 15:28	04/11/20 17:19	1

**Lab Sample ID: LCS 180-311118/2-A**  
**Matrix: Water**  
**Analysis Batch: 312766**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311118**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.920		mg/L		92	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.510		mg/L		102	80 - 120

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-311118/2-A**  
**Matrix: Water**  
**Analysis Batch: 312766**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311118**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.22		mg/L		98	80 - 120
Cadmium	0.500	0.504		mg/L		101	80 - 120
Calcium	25.0	27.8		mg/L		111	80 - 120
Chromium	0.500	0.507		mg/L		101	80 - 120
Cobalt	0.500	0.456		mg/L		91	80 - 120
Lead	0.500	0.490		mg/L		98	80 - 120
Lithium	0.500	0.495		mg/L		99	80 - 120
Molybdenum	0.500	0.499		mg/L		100	80 - 120
Selenium	1.00	0.962		mg/L		96	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120

**Lab Sample ID: 180-103812-B-19-B MS**  
**Matrix: Water**  
**Analysis Batch: 312766**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311118**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00031		1.00	0.929		mg/L		93	75 - 125
Barium	<0.0016		1.00	1.08		mg/L		108	75 - 125
Beryllium	<0.00018	^	0.500	0.534	^	mg/L		107	75 - 125
Boron	<0.039		1.25	1.27		mg/L		102	75 - 125
Cadmium	<0.00022		0.500	0.527		mg/L		105	75 - 125
Calcium	<0.13		25.0	29.5		mg/L		118	75 - 125
Chromium	<0.0015		0.500	0.535		mg/L		107	75 - 125
Cobalt	<0.00013		0.500	0.475		mg/L		95	75 - 125
Lead	<0.00013		0.500	0.511		mg/L		102	75 - 125
Lithium	<0.0034		0.500	0.512		mg/L		102	75 - 125
Molybdenum	<0.00061		0.500	0.516		mg/L		103	75 - 125
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125
Thallium	<0.00015		1.00	1.08		mg/L		108	75 - 125

**Lab Sample ID: 180-103812-B-19-C MSD**  
**Matrix: Water**  
**Analysis Batch: 312766**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311118**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00031		1.00	0.937		mg/L		94	75 - 125	1	20
Barium	<0.0016		1.00	1.08		mg/L		108	75 - 125	0	20
Beryllium	<0.00018	^	0.500	0.547	^	mg/L		109	75 - 125	2	20
Boron	<0.039		1.25	1.30		mg/L		104	75 - 125	3	20
Cadmium	<0.00022		0.500	0.528		mg/L		106	75 - 125	0	20
Calcium	<0.13		25.0	28.5		mg/L		114	75 - 125	3	20
Chromium	<0.0015		0.500	0.534		mg/L		107	75 - 125	0	20
Cobalt	<0.00013		0.500	0.473		mg/L		95	75 - 125	0	20
Lead	<0.00013		0.500	0.516		mg/L		103	75 - 125	1	20
Lithium	<0.0034		0.500	0.521		mg/L		104	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.517		mg/L		103	75 - 125	0	20
Selenium	<0.0015		1.00	1.04		mg/L		104	75 - 125	1	20
Thallium	<0.00015		1.00	1.10		mg/L		110	75 - 125	2	20

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-311119/1-A**  
**Matrix: Water**  
**Analysis Batch: 311957**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311119**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 15:29	04/02/20 17:31	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 15:29	04/02/20 17:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 15:29	04/02/20 17:31	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 15:29	04/02/20 17:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 15:29	04/02/20 17:31	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 15:29	04/02/20 17:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 15:29	04/02/20 17:31	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 15:29	04/02/20 17:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 15:29	04/02/20 17:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 15:29	04/02/20 17:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 15:29	04/02/20 17:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 15:29	04/02/20 17:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 15:29	04/02/20 17:31	1

**Lab Sample ID: LCS 180-311119/2-A**  
**Matrix: Water**  
**Analysis Batch: 311957**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311119**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	0.929		mg/L		93	80 - 120
Barium	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.500	0.525		mg/L		105	80 - 120
Boron	1.25	1.14		mg/L		91	80 - 120
Cadmium	0.500	0.519		mg/L		104	80 - 120
Calcium	25.0	26.4		mg/L		106	80 - 120
Chromium	0.500	0.521		mg/L		104	80 - 120
Cobalt	0.500	0.452		mg/L		90	80 - 120
Lead	0.500	0.537		mg/L		107	80 - 120
Lithium	0.500	0.511		mg/L		102	80 - 120
Molybdenum	0.500	0.504		mg/L		101	80 - 120
Selenium	1.00	0.986		mg/L		99	80 - 120
Thallium	1.00	1.10		mg/L		110	80 - 120

**Lab Sample ID: 460-205452-B-17-B MS**  
**Matrix: Water**  
**Analysis Batch: 311957**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311119**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.00031		1.00	0.953		mg/L		95	75 - 125
Barium	0.019		1.00	1.08		mg/L		106	75 - 125
Beryllium	<0.00018		0.500	0.530		mg/L		106	75 - 125
Boron	0.068	J	1.25	1.27		mg/L		96	75 - 125
Cadmium	<0.00022		0.500	0.535		mg/L		107	75 - 125
Calcium	42		25.0	67.7		mg/L		104	75 - 125
Chromium	<0.0015		0.500	0.525		mg/L		105	75 - 125
Cobalt	<0.00013		0.500	0.449		mg/L		90	75 - 125
Lead	<0.00013		0.500	0.529		mg/L		106	75 - 125
Lithium	0.026		0.500	0.511		mg/L		97	75 - 125
Molybdenum	<0.00061		0.500	0.523		mg/L		105	75 - 125

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 460-205452-B-17-B MS**  
**Matrix: Water**  
**Analysis Batch: 311957**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311119**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125
Thallium	<0.00015		1.00	1.07		mg/L		107	75 - 125

**Lab Sample ID: 460-205452-B-17-C MSD**  
**Matrix: Water**  
**Analysis Batch: 311957**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311119**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00031		1.00	0.962		mg/L		96	75 - 125	1	20
Barium	0.019		1.00	1.07		mg/L		105	75 - 125	1	20
Beryllium	<0.00018		0.500	0.521		mg/L		104	75 - 125	2	20
Boron	0.068	J	1.25	1.26		mg/L		96	75 - 125	0	20
Cadmium	<0.00022		0.500	0.532		mg/L		106	75 - 125	0	20
Calcium	42		25.0	67.8		mg/L		105	75 - 125	0	20
Chromium	<0.0015		0.500	0.522		mg/L		104	75 - 125	1	20
Cobalt	<0.00013		0.500	0.464		mg/L		93	75 - 125	3	20
Lead	<0.00013		0.500	0.526		mg/L		105	75 - 125	1	20
Lithium	0.026		0.500	0.534		mg/L		102	75 - 125	4	20
Molybdenum	<0.00061		0.500	0.535		mg/L		107	75 - 125	2	20
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125	0	20
Thallium	<0.00015		1.00	1.08		mg/L		108	75 - 125	2	20

**Lab Sample ID: MB 180-311518/1-A**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311518**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 00:45	04/15/20 14:19	1
Barium	<0.0016		0.010	0.0016	mg/L		03/30/20 00:45	04/15/20 14:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 00:45	04/15/20 14:19	1
Boron	<0.039		0.080	0.039	mg/L		03/30/20 00:45	04/15/20 14:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 00:45	04/15/20 14:19	1
Calcium	<0.13		0.50	0.13	mg/L		03/30/20 00:45	04/15/20 14:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 00:45	04/15/20 14:19	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/30/20 00:45	04/15/20 14:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 00:45	04/15/20 14:19	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 00:45	04/15/20 14:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 00:45	04/15/20 14:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 00:45	04/15/20 14:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 00:45	04/15/20 14:19	1

**Lab Sample ID: LCS 180-311518/2-A**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311518**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.06		mg/L		106	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.477		mg/L		95	80 - 120

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-311518/2-A**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311518**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.20		mg/L		96	80 - 120
Cadmium	0.500	0.503		mg/L		101	80 - 120
Calcium	25.0	28.5		mg/L		114	80 - 120
Chromium	0.500	0.527		mg/L		105	80 - 120
Cobalt	0.500	0.505		mg/L		101	80 - 120
Lead	0.500	0.508		mg/L		102	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120
Molybdenum	0.500	0.509		mg/L		102	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120

**Lab Sample ID: 180-103953-E-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311518**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00062	J	1.00	1.07		mg/L		107	75 - 125
Barium	0.033		1.00	1.08		mg/L		104	75 - 125
Beryllium	<0.00018		0.500	0.493		mg/L		99	75 - 125
Boron	<0.039		1.25	1.25		mg/L		100	75 - 125
Cadmium	<0.00022		0.500	0.521		mg/L		104	75 - 125
Calcium	35	F1	25.0	65.7		mg/L		124	75 - 125
Chromium	<0.0015		0.500	0.529		mg/L		106	75 - 125
Cobalt	0.0039		0.500	0.513		mg/L		102	75 - 125
Lead	0.00025	J	0.500	0.517		mg/L		103	75 - 125
Lithium	<0.0034		0.500	0.489		mg/L		98	75 - 125
Molybdenum	0.0098	J	0.500	0.540		mg/L		106	75 - 125
Selenium	<0.0015		1.00	1.00		mg/L		100	75 - 125
Thallium	0.00051	J	1.00	1.10		mg/L		110	75 - 125

**Lab Sample ID: 180-103953-E-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311518**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.00062	J	1.00	1.10		mg/L		110	75 - 125	2	20
Barium	0.033		1.00	1.09		mg/L		106	75 - 125	1	20
Beryllium	<0.00018		0.500	0.501		mg/L		100	75 - 125	2	20
Boron	<0.039		1.25	1.31		mg/L		105	75 - 125	4	20
Cadmium	<0.00022		0.500	0.526		mg/L		105	75 - 125	1	20
Calcium	35	F1	25.0	67.6	F1	mg/L		131	75 - 125	3	20
Chromium	<0.0015		0.500	0.544		mg/L		109	75 - 125	3	20
Cobalt	0.0039		0.500	0.534		mg/L		106	75 - 125	4	20
Lead	0.00025	J	0.500	0.532		mg/L		106	75 - 125	3	20
Lithium	<0.0034		0.500	0.497		mg/L		99	75 - 125	2	20
Molybdenum	0.0098	J	0.500	0.556		mg/L		109	75 - 125	3	20
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125	2	20
Thallium	0.00051	J	1.00	1.13		mg/L		113	75 - 125	3	20

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-311519/1-A**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311519**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 17:17	1
Barium	<0.0016		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 17:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 17:17	1
Boron	<0.039		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 17:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 17:17	1
Calcium	<0.13		0.50	0.13	mg/L		03/30/20 08:55	04/15/20 17:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/30/20 08:55	04/15/20 17:17	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 17:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/30/20 08:55	04/15/20 17:17	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/30/20 08:55	04/15/20 17:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/30/20 08:55	04/15/20 17:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/30/20 08:55	04/15/20 17:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/30/20 08:55	04/15/20 17:17	1

**Lab Sample ID: LCS 180-311519/2-A**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311519**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.05		mg/L		105	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.520		mg/L		104	80 - 120
Boron	1.25	1.24		mg/L		99	80 - 120
Cadmium	0.500	0.521		mg/L		104	80 - 120
Calcium	25.0	29.7		mg/L		119	80 - 120
Chromium	0.500	0.526		mg/L		105	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.500	0.524		mg/L		105	80 - 120
Lithium	0.500	0.483		mg/L		97	80 - 120
Molybdenum	0.500	0.518		mg/L		104	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.12		mg/L		112	80 - 120

**Lab Sample ID: 180-104069-1 MS**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: SGWC-6**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311519**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00044	J	1.00	1.03		mg/L		103	75 - 125
Barium	0.12		1.00	1.17		mg/L		105	75 - 125
Beryllium	0.00020	J	0.500	0.520		mg/L		104	75 - 125
Boron	<0.039		1.25	1.14		mg/L		92	75 - 125
Cadmium	0.00022	J	0.500	0.523		mg/L		105	75 - 125
Calcium	11		25.0	38.9		mg/L		114	75 - 125
Chromium	<0.0015		0.500	0.517		mg/L		103	75 - 125
Cobalt	0.00027	J	0.500	0.494		mg/L		99	75 - 125
Lead	0.00020	J	0.500	0.523		mg/L		104	75 - 125
Lithium	<0.0034		0.500	0.472		mg/L		94	75 - 125
Molybdenum	<0.00061		0.500	0.516		mg/L		103	75 - 125

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-104069-1 MS**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: SGWC-6**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311519**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	<0.0015		1.00	0.985		mg/L		99	75 - 125
Thallium	0.00049	J	1.00	1.11		mg/L		111	75 - 125

**Lab Sample ID: 180-104069-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 313035**

**Client Sample ID: SGWC-6**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311519**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00044	J	1.00	1.01		mg/L		101	75 - 125	2	20
Barium	0.12		1.00	1.15		mg/L		102	75 - 125	2	20
Beryllium	0.00020	J	0.500	0.479		mg/L		96	75 - 125	8	20
Boron	<0.039		1.25	1.09		mg/L		87	75 - 125	5	20
Cadmium	0.00022	J	0.500	0.513		mg/L		103	75 - 125	2	20
Calcium	11		25.0	39.1		mg/L		114	75 - 125	0	20
Chromium	<0.0015		0.500	0.508		mg/L		102	75 - 125	2	20
Cobalt	0.00027	J	0.500	0.490		mg/L		98	75 - 125	1	20
Lead	0.00020	J	0.500	0.513		mg/L		102	75 - 125	2	20
Lithium	<0.0034		0.500	0.443		mg/L		89	75 - 125	6	20
Molybdenum	<0.00061		0.500	0.511		mg/L		102	75 - 125	1	20
Selenium	<0.0015		1.00	0.949		mg/L		95	75 - 125	4	20
Thallium	0.00049	J	1.00	1.08		mg/L		108	75 - 125	3	20

**Lab Sample ID: MB 180-311753/1-A**  
**Matrix: Water**  
**Analysis Batch: 313140**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311753**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/01/20 08:27	04/16/20 22:24	1
Barium	<0.0016		0.010	0.0016	mg/L		04/01/20 08:27	04/16/20 22:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/01/20 08:27	04/16/20 22:24	1
Boron	<0.039		0.080	0.039	mg/L		04/01/20 08:27	04/16/20 22:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/01/20 08:27	04/16/20 22:24	1
Calcium	<0.13		0.50	0.13	mg/L		04/01/20 08:27	04/16/20 22:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/01/20 08:27	04/16/20 22:24	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/01/20 08:27	04/16/20 22:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/01/20 08:27	04/16/20 22:24	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/01/20 08:27	04/16/20 22:24	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/01/20 08:27	04/16/20 22:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/01/20 08:27	04/16/20 22:24	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/01/20 08:27	04/16/20 22:24	1

**Lab Sample ID: LCS 180-311753/2-A**  
**Matrix: Water**  
**Analysis Batch: 313140**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311753**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.999		mg/L		100	80 - 120
Barium	1.00	0.962		mg/L		96	80 - 120
Beryllium	0.500	0.489		mg/L		98	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-311753/2-A**  
**Matrix: Water**  
**Analysis Batch: 313140**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311753**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.17		mg/L		93	80 - 120
Cadmium	0.500	0.505		mg/L		101	80 - 120
Calcium	25.0	27.4		mg/L		109	80 - 120
Chromium	0.500	0.476		mg/L		95	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Lead	0.500	0.498		mg/L		100	80 - 120
Lithium	0.500	0.441		mg/L		88	80 - 120
Molybdenum	0.500	0.491		mg/L		98	80 - 120
Selenium	1.00	0.932		mg/L		93	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120

**Lab Sample ID: 180-104107-1 MS**  
**Matrix: Water**  
**Analysis Batch: 313140**

**Client Sample ID: SGWC-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311753**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00031		1.00	1.03		mg/L		103	75 - 125
Barium	0.034		1.00	0.999		mg/L		96	75 - 125
Beryllium	<0.00018		0.500	0.482		mg/L		96	75 - 125
Boron	0.49		1.25	1.65		mg/L		93	75 - 125
Cadmium	<0.00022		0.500	0.497		mg/L		99	75 - 125
Calcium	18		25.0	46.7		mg/L		113	75 - 125
Chromium	<0.0015		0.500	0.479		mg/L		96	75 - 125
Cobalt	0.0020	J	0.500	0.514		mg/L		102	75 - 125
Lead	<0.00013		0.500	0.495		mg/L		99	75 - 125
Lithium	<0.0034		0.500	0.456		mg/L		91	75 - 125
Molybdenum	<0.00061		0.500	0.503		mg/L		101	75 - 125
Selenium	<0.0015		1.00	0.935		mg/L		93	75 - 125
Thallium	<0.00015		1.00	1.06		mg/L		106	75 - 125

**Lab Sample ID: 180-104107-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 313140**

**Client Sample ID: SGWC-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 311753**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	<0.00031		1.00	1.04		mg/L		104	75 - 125	1	20
Barium	0.034		1.00	0.995		mg/L		96	75 - 125	0	20
Beryllium	<0.00018		0.500	0.476		mg/L		95	75 - 125	1	20
Boron	0.49		1.25	1.64		mg/L		92	75 - 125	1	20
Cadmium	<0.00022		0.500	0.495		mg/L		99	75 - 125	0	20
Calcium	18		25.0	46.4		mg/L		112	75 - 125	1	20
Chromium	<0.0015		0.500	0.473		mg/L		95	75 - 125	1	20
Cobalt	0.0020	J	0.500	0.515		mg/L		103	75 - 125	0	20
Lead	<0.00013		0.500	0.494		mg/L		99	75 - 125	0	20
Lithium	<0.0034		0.500	0.453		mg/L		91	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.506		mg/L		101	75 - 125	1	20
Selenium	<0.0015		1.00	0.937		mg/L		94	75 - 125	0	20
Thallium	<0.00015		1.00	1.05		mg/L		105	75 - 125	1	20

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-310887/1-A**  
**Matrix: Water**  
**Analysis Batch: 311000**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 310887**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/23/20 17:51	03/24/20 17:53	1

**Lab Sample ID: LCS 180-310887/2-A**  
**Matrix: Water**  
**Analysis Batch: 311000**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 310887**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00450	0.00446		mg/L		99	80 - 120

**Lab Sample ID: 180-103814-3 MS**  
**Matrix: Water**  
**Analysis Batch: 311000**

**Client Sample ID: SGWA-24**  
**Prep Type: Total/NA**  
**Prep Batch: 310887**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.00102		mg/L		102	75 - 125

**Lab Sample ID: 180-103814-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 311000**

**Client Sample ID: SGWA-24**  
**Prep Type: Total/NA**  
**Prep Batch: 310887**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.00101		mg/L		101	75 - 125	0	20

**Lab Sample ID: MB 180-311971/1-A**  
**Matrix: Water**  
**Analysis Batch: 312051**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 311971**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 10:00	04/03/20 19:12	1

**Lab Sample ID: LCS 180-311971/2-A**  
**Matrix: Water**  
**Analysis Batch: 312051**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 311971**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00224		mg/L		89	80 - 120

**Lab Sample ID: 180-104016-1 MS**  
**Matrix: Water**  
**Analysis Batch: 312051**

**Client Sample ID: SGWC-17**  
**Prep Type: Total/NA**  
**Prep Batch: 311971**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000837		mg/L		84	75 - 125

**Lab Sample ID: 180-104016-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 312051**

**Client Sample ID: SGWC-17**  
**Prep Type: Total/NA**  
**Prep Batch: 311971**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000879		mg/L		88	75 - 125	5	20

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-311986/1-A**  
**Matrix: Water**  
**Analysis Batch: 312179**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 311986**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 15:52	1

**Lab Sample ID: LCS 180-311986/2-A**  
**Matrix: Water**  
**Analysis Batch: 312179**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 311986**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00238		mg/L		95	80 - 120

**Lab Sample ID: 180-104069-2 MS**  
**Matrix: Water**  
**Analysis Batch: 312179**

**Client Sample ID: SGWC-8**  
**Prep Type: Total/NA**  
**Prep Batch: 311986**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.00104		mg/L		104	75 - 125

**Lab Sample ID: 180-104069-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 312179**

**Client Sample ID: SGWC-8**  
**Prep Type: Total/NA**  
**Prep Batch: 311986**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.00105		mg/L		105	75 - 125	1	20

**Lab Sample ID: MB 180-311987/1-A**  
**Matrix: Water**  
**Analysis Batch: 312179**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 311987**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		04/03/20 18:00	04/06/20 16:16	1

**Lab Sample ID: LCS 180-311987/2-A**  
**Matrix: Water**  
**Analysis Batch: 312179**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 311987**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

**Lab Sample ID: 180-104108-1 MS**  
**Matrix: Water**  
**Analysis Batch: 312179**

**Client Sample ID: SGWC-7**  
**Prep Type: Total/NA**  
**Prep Batch: 311987**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.00100		mg/L		100	75 - 125

**Lab Sample ID: 180-104108-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 312179**

**Client Sample ID: SGWC-7**  
**Prep Type: Total/NA**  
**Prep Batch: 311987**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.00101		mg/L		101	75 - 125	1	20

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-310666/2**  
**Matrix: Water**  
**Analysis Batch: 310666**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L	-		03/21/20 08:52	1

**Lab Sample ID: LCS 180-310666/1**  
**Matrix: Water**  
**Analysis Batch: 310666**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	248		mg/L	-	102	80 - 120

**Lab Sample ID: 180-103744-A-5 DU**  
**Matrix: Water**  
**Analysis Batch: 310666**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370		371		mg/L	-	0.5	10

**Lab Sample ID: 180-103747-A-1 DU**  
**Matrix: Water**  
**Analysis Batch: 310666**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	520		517		mg/L	-	1	10

**Lab Sample ID: MB 180-310933/2**  
**Matrix: Water**  
**Analysis Batch: 310933**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L	-		03/24/20 08:00	1

**Lab Sample ID: LCS 180-310933/1**  
**Matrix: Water**  
**Analysis Batch: 310933**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	236		mg/L	-	98	80 - 120

**Lab Sample ID: 180-103809-B-8 DU**  
**Matrix: Water**  
**Analysis Batch: 310933**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370		410		mg/L	-	10	10

**Lab Sample ID: 180-103810-A-9 DU**  
**Matrix: Water**  
**Analysis Batch: 310933**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	120		121		mg/L	-	0	10

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: 180-103979-1 DU**  
**Matrix: Water**  
**Analysis Batch: 311206**

**Client Sample ID: SGWC-19**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	390		399		mg/L		2	10

**Lab Sample ID: MB 180-311337/2**  
**Matrix: Water**  
**Analysis Batch: 311337**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/27/20 08:47	1

**Lab Sample ID: LCS 180-311337/1**  
**Matrix: Water**  
**Analysis Batch: 311337**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	236		mg/L		98	80 - 120

**Lab Sample ID: 180-104016-1 DU**  
**Matrix: Water**  
**Analysis Batch: 311337**

**Client Sample ID: SGWC-17**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	430		417		mg/L		2	10

**Lab Sample ID: MB 180-311436/2**  
**Matrix: Water**  
**Analysis Batch: 311436**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/28/20 08:31	1

**Lab Sample ID: LCS 180-311436/1**  
**Matrix: Water**  
**Analysis Batch: 311436**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	242	228		mg/L		94	80 - 120

**Lab Sample ID: 180-104053-A-3 DU**  
**Matrix: Water**  
**Analysis Batch: 311436**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	400		391		mg/L		2	10

**Lab Sample ID: 180-104069-2 DU**  
**Matrix: Water**  
**Analysis Batch: 311436**

**Client Sample ID: SGWC-8**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	360		346		mg/L		5	10

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: 180-104107-2 DU**  
**Matrix: Water**  
**Analysis Batch: 311642**

**Client Sample ID: SGWC-14**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	330		342		mg/L	-	4	10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## HPLC/IC

### Analysis Batch: 312070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-103766-2	SGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-103766-3	SGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-103766-4	SGWA-25	Total/NA	Water	EPA 300.0 R2.1	
180-103766-5	FB-1(AP)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312070/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312070/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-103798-B-1 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-103798-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 312143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-3	SGWA-24	Total/NA	Water	EPA 300.0 R2.1	
180-103814-4	FD-1(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-103814-5	EB-1(AP)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312143/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312143/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-103810-A-2 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-103810-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 312144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-1	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-103814-2	SGWA-4	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312144/56	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312144/55	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-103814-1 MS	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-103814-1 MSD	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-103814-2 MS	SGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-103814-2 MSD	SGWA-4	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 312386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104016-1	SGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-104016-2	SGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-104016-3	SGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-104016-4	FB-2(AP)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312386/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312386/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-104016-3 MS	SGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-104016-3 MSD	SGWC-22	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 312442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-103979-2	SGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-103979-3	SGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-103979-4	EB-2(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-103979-5	FD-2(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-104107-1	SGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-104107-2	SGWC-14	Total/NA	Water	EPA 300.0 R2.1	

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## HPLC/IC (Continued)

### Analysis Batch: 312442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104107-3	SGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-104107-4	SGWC-16	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312442/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312442/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-104008-D-1 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-104008-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	
180-104309-B-1 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-104309-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 312565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-103979-2	SGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-103979-5	FD-2(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-104069-1	SGWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-104069-2	SGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-104069-3	SGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-104069-3	SGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-104069-4	SGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-104069-5	SGWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-104069-6	EB-3(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-104069-7	FD-3(AP)	Total/NA	Water	EPA 300.0 R2.1	
180-104108-2	SGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-104108-3	SGWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-104108-3	SGWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-104108-4	FB-3 (AP)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312565/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312565/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-104441-E-1 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-104441-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 312814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104108-1	SGWC-7	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312814/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312814/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 310887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total/NA	Water	7470A	
180-103766-2	SGWA-3	Total/NA	Water	7470A	
180-103766-3	SGWA-2	Total/NA	Water	7470A	
180-103766-4	SGWA-25	Total/NA	Water	7470A	
180-103766-5	FB-1(AP)	Total/NA	Water	7470A	
180-103814-1	SGWA-1	Total/NA	Water	7470A	
180-103814-2	SGWA-4	Total/NA	Water	7470A	
180-103814-3	SGWA-24	Total/NA	Water	7470A	
MB 180-310887/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310887/2-A	Lab Control Sample	Total/NA	Water	7470A	

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Metals (Continued)

### Prep Batch: 310887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-3 MS	SGWA-24	Total/NA	Water	7470A	
180-103814-3 MSD	SGWA-24	Total/NA	Water	7470A	

### Analysis Batch: 311000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total/NA	Water	EPA 7470A	310887
180-103766-2	SGWA-3	Total/NA	Water	EPA 7470A	310887
180-103766-3	SGWA-2	Total/NA	Water	EPA 7470A	310887
180-103766-4	SGWA-25	Total/NA	Water	EPA 7470A	310887
180-103766-5	FB-1(AP)	Total/NA	Water	EPA 7470A	310887
180-103814-1	SGWA-1	Total/NA	Water	EPA 7470A	310887
180-103814-2	SGWA-4	Total/NA	Water	EPA 7470A	310887
180-103814-3	SGWA-24	Total/NA	Water	EPA 7470A	310887
MB 180-310887/1-A	Method Blank	Total/NA	Water	EPA 7470A	310887
LCS 180-310887/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310887
180-103814-3 MS	SGWA-24	Total/NA	Water	EPA 7470A	310887
180-103814-3 MSD	SGWA-24	Total/NA	Water	EPA 7470A	310887

### Prep Batch: 311032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total Recoverable	Water	3005A	
180-103766-2	SGWA-3	Total Recoverable	Water	3005A	
180-103766-3	SGWA-2	Total Recoverable	Water	3005A	
180-103766-4	SGWA-25	Total Recoverable	Water	3005A	
180-103766-5	FB-1(AP)	Total Recoverable	Water	3005A	
MB 180-311032/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311032/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103607-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
180-103607-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Prep Batch: 311118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-1	SGWA-1	Total Recoverable	Water	3005A	
MB 180-311118/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311118/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103812-B-19-B MS	Matrix Spike	Total Recoverable	Water	3005A	
180-103812-B-19-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Prep Batch: 311119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-2	SGWA-4	Total Recoverable	Water	3005A	
180-103814-3	SGWA-24	Total Recoverable	Water	3005A	
MB 180-311119/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311119/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
460-205452-B-17-B MS	Matrix Spike	Total Recoverable	Water	3005A	
460-205452-B-17-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Prep Batch: 311518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104016-1	SGWC-17	Total Recoverable	Water	3005A	
180-104016-2	SGWC-23	Total Recoverable	Water	3005A	

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Metals (Continued)

### Prep Batch: 311518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104016-3	SGWC-22	Total Recoverable	Water	3005A	
180-104016-4	FB-2(AP)	Total Recoverable	Water	3005A	
MB 180-311518/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311518/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103953-E-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
180-103953-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Prep Batch: 311519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total Recoverable	Water	3005A	
180-103979-2	SGWC-20	Total Recoverable	Water	3005A	
180-103979-3	SGWC-21	Total Recoverable	Water	3005A	
180-103979-4	EB-2(AP)	Total Recoverable	Water	3005A	
180-103979-5	FD-2(AP)	Total Recoverable	Water	3005A	
180-104069-1	SGWC-6	Total Recoverable	Water	3005A	
180-104069-2	SGWC-8	Total Recoverable	Water	3005A	
180-104069-3	SGWC-9	Total Recoverable	Water	3005A	
180-104069-4	SGWC-10	Total Recoverable	Water	3005A	
180-104069-5	SGWC-11	Total Recoverable	Water	3005A	
180-104069-6	EB-3(AP)	Total Recoverable	Water	3005A	
180-104069-7	FD-3(AP)	Total Recoverable	Water	3005A	
MB 180-311519/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311519/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-104069-1 MS	SGWC-6	Total Recoverable	Water	3005A	
180-104069-1 MSD	SGWC-6	Total Recoverable	Water	3005A	

### Prep Batch: 311753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104107-1	SGWC-13	Total Recoverable	Water	3005A	
180-104107-2	SGWC-14	Total Recoverable	Water	3005A	
180-104107-3	SGWC-15	Total Recoverable	Water	3005A	
180-104107-4	SGWC-16	Total Recoverable	Water	3005A	
180-104108-1	SGWC-7	Total Recoverable	Water	3005A	
180-104108-2	SGWC-12	Total Recoverable	Water	3005A	
180-104108-3	SGWC-18	Total Recoverable	Water	3005A	
180-104108-4	FB-3 (AP)	Total Recoverable	Water	3005A	
MB 180-311753/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311753/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-104107-1 MS	SGWC-13	Total Recoverable	Water	3005A	
180-104107-1 MSD	SGWC-13	Total Recoverable	Water	3005A	

### Prep Batch: 311813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total/NA	Water	7470A	
180-103979-2	SGWC-20	Total/NA	Water	7470A	
180-103979-3	SGWC-21	Total/NA	Water	7470A	
180-103979-4	EB-2(AP)	Total/NA	Water	7470A	
180-103979-5	FD-2(AP)	Total/NA	Water	7470A	

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Metals

### Analysis Batch: 311939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total/NA	Water	EPA 7470A	311813
180-103979-2	SGWC-20	Total/NA	Water	EPA 7470A	311813
180-103979-3	SGWC-21	Total/NA	Water	EPA 7470A	311813
180-103979-4	EB-2(AP)	Total/NA	Water	EPA 7470A	311813
180-103979-5	FD-2(AP)	Total/NA	Water	EPA 7470A	311813

### Analysis Batch: 311957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-2	SGWA-4	Total Recoverable	Water	EPA 6020B	311119
180-103814-3	SGWA-24	Total Recoverable	Water	EPA 6020B	311119
MB 180-311119/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311119
LCS 180-311119/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311119
460-205452-B-17-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	311119
460-205452-B-17-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	311119

### Analysis Batch: 311959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total Recoverable	Water	EPA 6020B	311032
180-103766-2	SGWA-3	Total Recoverable	Water	EPA 6020B	311032
180-103766-3	SGWA-2	Total Recoverable	Water	EPA 6020B	311032
180-103766-4	SGWA-25	Total Recoverable	Water	EPA 6020B	311032
180-103766-5	FB-1(AP)	Total Recoverable	Water	EPA 6020B	311032
MB 180-311032/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311032
LCS 180-311032/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311032
180-103607-C-1-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	311032
180-103607-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	311032

### Prep Batch: 311971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104016-1	SGWC-17	Total/NA	Water	7470A	
180-104016-2	SGWC-23	Total/NA	Water	7470A	
180-104016-3	SGWC-22	Total/NA	Water	7470A	
180-104016-4	FB-2(AP)	Total/NA	Water	7470A	
180-104107-1	SGWC-13	Total/NA	Water	7470A	
180-104107-2	SGWC-14	Total/NA	Water	7470A	
180-104107-3	SGWC-15	Total/NA	Water	7470A	
180-104107-4	SGWC-16	Total/NA	Water	7470A	
MB 180-311971/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-311971/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-104016-1 MS	SGWC-17	Total/NA	Water	7470A	
180-104016-1 MSD	SGWC-17	Total/NA	Water	7470A	

### Prep Batch: 311986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104069-1	SGWC-6	Total/NA	Water	7470A	
180-104069-2	SGWC-8	Total/NA	Water	7470A	
180-104069-3	SGWC-9	Total/NA	Water	7470A	
180-104069-4	SGWC-10	Total/NA	Water	7470A	
180-104069-5	SGWC-11	Total/NA	Water	7470A	
180-104069-6	EB-3(AP)	Total/NA	Water	7470A	
180-104069-7	FD-3(AP)	Total/NA	Water	7470A	

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Metals (Continued)

### Prep Batch: 311986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-311986/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-311986/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-104069-2 MS	SGWC-8	Total/NA	Water	7470A	
180-104069-2 MSD	SGWC-8	Total/NA	Water	7470A	

### Prep Batch: 311987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104108-1	SGWC-7	Total/NA	Water	7470A	
180-104108-2	SGWC-12	Total/NA	Water	7470A	
180-104108-3	SGWC-18	Total/NA	Water	7470A	
180-104108-4	FB-3 (AP)	Total/NA	Water	7470A	
MB 180-311987/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-311987/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-104108-1 MS	SGWC-7	Total/NA	Water	7470A	
180-104108-1 MSD	SGWC-7	Total/NA	Water	7470A	

### Analysis Batch: 312051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104016-1	SGWC-17	Total/NA	Water	EPA 7470A	311971
180-104016-2	SGWC-23	Total/NA	Water	EPA 7470A	311971
180-104016-3	SGWC-22	Total/NA	Water	EPA 7470A	311971
180-104016-4	FB-2(AP)	Total/NA	Water	EPA 7470A	311971
180-104107-1	SGWC-13	Total/NA	Water	EPA 7470A	311971
180-104107-2	SGWC-14	Total/NA	Water	EPA 7470A	311971
180-104107-3	SGWC-15	Total/NA	Water	EPA 7470A	311971
180-104107-4	SGWC-16	Total/NA	Water	EPA 7470A	311971
MB 180-311971/1-A	Method Blank	Total/NA	Water	EPA 7470A	311971
LCS 180-311971/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	311971
180-104016-1 MS	SGWC-17	Total/NA	Water	EPA 7470A	311971
180-104016-1 MSD	SGWC-17	Total/NA	Water	EPA 7470A	311971

### Analysis Batch: 312179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104069-1	SGWC-6	Total/NA	Water	EPA 7470A	311986
180-104069-2	SGWC-8	Total/NA	Water	EPA 7470A	311986
180-104069-3	SGWC-9	Total/NA	Water	EPA 7470A	311986
180-104069-4	SGWC-10	Total/NA	Water	EPA 7470A	311986
180-104069-5	SGWC-11	Total/NA	Water	EPA 7470A	311986
180-104069-6	EB-3(AP)	Total/NA	Water	EPA 7470A	311986
180-104069-7	FD-3(AP)	Total/NA	Water	EPA 7470A	311986
180-104108-1	SGWC-7	Total/NA	Water	EPA 7470A	311987
180-104108-2	SGWC-12	Total/NA	Water	EPA 7470A	311987
180-104108-3	SGWC-18	Total/NA	Water	EPA 7470A	311987
180-104108-4	FB-3 (AP)	Total/NA	Water	EPA 7470A	311987
MB 180-311986/1-A	Method Blank	Total/NA	Water	EPA 7470A	311986
MB 180-311987/1-A	Method Blank	Total/NA	Water	EPA 7470A	311987
LCS 180-311986/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	311986
LCS 180-311987/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	311987
180-104069-2 MS	SGWC-8	Total/NA	Water	EPA 7470A	311986
180-104069-2 MSD	SGWC-8	Total/NA	Water	EPA 7470A	311986
180-104108-1 MS	SGWC-7	Total/NA	Water	EPA 7470A	311987

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Metals (Continued)

### Analysis Batch: 312179 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104108-1 MSD	SGWC-7	Total/NA	Water	EPA 7470A	311987

### Analysis Batch: 312766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-1	SGWA-1	Total Recoverable	Water	EPA 6020B	311118
MB 180-311118/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311118
LCS 180-311118/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311118
180-103812-B-19-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	311118
180-103812-B-19-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	311118

### Analysis Batch: 313035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total Recoverable	Water	EPA 6020B	311519
180-103979-2	SGWC-20	Total Recoverable	Water	EPA 6020B	311519
180-103979-3	SGWC-21	Total Recoverable	Water	EPA 6020B	311519
180-103979-4	EB-2(AP)	Total Recoverable	Water	EPA 6020B	311519
180-103979-5	FD-2(AP)	Total Recoverable	Water	EPA 6020B	311519
180-104016-1	SGWC-17	Total Recoverable	Water	EPA 6020B	311518
180-104016-2	SGWC-23	Total Recoverable	Water	EPA 6020B	311518
180-104016-3	SGWC-22	Total Recoverable	Water	EPA 6020B	311518
180-104016-4	FB-2(AP)	Total Recoverable	Water	EPA 6020B	311518
180-104069-1	SGWC-6	Total Recoverable	Water	EPA 6020B	311519
180-104069-2	SGWC-8	Total Recoverable	Water	EPA 6020B	311519
180-104069-3	SGWC-9	Total Recoverable	Water	EPA 6020B	311519
180-104069-4	SGWC-10	Total Recoverable	Water	EPA 6020B	311519
180-104069-5	SGWC-11	Total Recoverable	Water	EPA 6020B	311519
180-104069-6	EB-3(AP)	Total Recoverable	Water	EPA 6020B	311519
180-104069-7	FD-3(AP)	Total Recoverable	Water	EPA 6020B	311519
MB 180-311518/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311518
MB 180-311519/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311519
LCS 180-311518/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311518
LCS 180-311519/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311519
180-103953-E-1-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	311518
180-103953-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	311518
180-104069-1 MS	SGWC-6	Total Recoverable	Water	EPA 6020B	311519
180-104069-1 MSD	SGWC-6	Total Recoverable	Water	EPA 6020B	311519

### Analysis Batch: 313140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104107-1	SGWC-13	Total Recoverable	Water	EPA 6020B	311753
180-104107-2	SGWC-14	Total Recoverable	Water	EPA 6020B	311753
180-104107-3	SGWC-15	Total Recoverable	Water	EPA 6020B	311753
180-104107-4	SGWC-16	Total Recoverable	Water	EPA 6020B	311753
180-104108-1	SGWC-7	Total Recoverable	Water	EPA 6020B	311753
180-104108-2	SGWC-12	Total Recoverable	Water	EPA 6020B	311753
180-104108-3	SGWC-18	Total Recoverable	Water	EPA 6020B	311753
180-104108-4	FB-3 (AP)	Total Recoverable	Water	EPA 6020B	311753
MB 180-311753/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311753
LCS 180-311753/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311753
180-104107-1 MS	SGWC-13	Total Recoverable	Water	EPA 6020B	311753
180-104107-1 MSD	SGWC-13	Total Recoverable	Water	EPA 6020B	311753

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## General Chemistry

### Analysis Batch: 310666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total/NA	Water	SM 2540C	
180-103766-2	SGWA-3	Total/NA	Water	SM 2540C	
180-103766-3	SGWA-2	Total/NA	Water	SM 2540C	
180-103766-4	SGWA-25	Total/NA	Water	SM 2540C	
180-103766-5	FB-1(AP)	Total/NA	Water	SM 2540C	
MB 180-310666/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310666/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-103744-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	
180-103747-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

### Analysis Batch: 310933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-1	SGWA-1	Total/NA	Water	SM 2540C	
180-103814-2	SGWA-4	Total/NA	Water	SM 2540C	
180-103814-3	SGWA-24	Total/NA	Water	SM 2540C	
180-103814-4	FD-1(AP)	Total/NA	Water	SM 2540C	
180-103814-5	EB-1(AP)	Total/NA	Water	SM 2540C	
MB 180-310933/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310933/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-103809-B-8 DU	Duplicate	Total/NA	Water	SM 2540C	
180-103810-A-9 DU	Duplicate	Total/NA	Water	SM 2540C	

### Analysis Batch: 311206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total/NA	Water	SM 2540C	
180-103979-2	SGWC-20	Total/NA	Water	SM 2540C	
180-103979-3	SGWC-21	Total/NA	Water	SM 2540C	
180-103979-4	EB-2(AP)	Total/NA	Water	SM 2540C	
180-103979-5	FD-2(AP)	Total/NA	Water	SM 2540C	
180-103979-1 DU	SGWC-19	Total/NA	Water	SM 2540C	

### Analysis Batch: 311337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104016-1	SGWC-17	Total/NA	Water	SM 2540C	
180-104016-2	SGWC-23	Total/NA	Water	SM 2540C	
180-104016-3	SGWC-22	Total/NA	Water	SM 2540C	
180-104016-4	FB-2(AP)	Total/NA	Water	SM 2540C	
MB 180-311337/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-311337/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-104016-1 DU	SGWC-17	Total/NA	Water	SM 2540C	

### Analysis Batch: 311436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104069-1	SGWC-6	Total/NA	Water	SM 2540C	
180-104069-2	SGWC-8	Total/NA	Water	SM 2540C	
180-104069-3	SGWC-9	Total/NA	Water	SM 2540C	
180-104069-4	SGWC-10	Total/NA	Water	SM 2540C	
180-104069-5	SGWC-11	Total/NA	Water	SM 2540C	
180-104069-6	EB-3(AP)	Total/NA	Water	SM 2540C	
180-104069-7	FD-3(AP)	Total/NA	Water	SM 2540C	
MB 180-311436/2	Method Blank	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## General Chemistry (Continued)

### Analysis Batch: 311436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-311436/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-104053-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	
180-104069-2 DU	SGWC-8	Total/NA	Water	SM 2540C	

### Analysis Batch: 311642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104107-1	SGWC-13	Total/NA	Water	SM 2540C	
180-104107-2	SGWC-14	Total/NA	Water	SM 2540C	
180-104107-3	SGWC-15	Total/NA	Water	SM 2540C	
180-104107-4	SGWC-16	Total/NA	Water	SM 2540C	
180-104108-1	SGWC-7	Total/NA	Water	SM 2540C	
180-104108-2	SGWC-12	Total/NA	Water	SM 2540C	
180-104108-3	SGWC-18	Total/NA	Water	SM 2540C	
180-104108-4	FB-3 (AP)	Total/NA	Water	SM 2540C	
180-104107-2 DU	SGWC-14	Total/NA	Water	SM 2540C	

## Field Service / Mobile Lab

### Analysis Batch: 310781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total/NA	Water	Field Sampling	
180-103766-2	SGWA-3	Total/NA	Water	Field Sampling	
180-103766-3	SGWA-2	Total/NA	Water	Field Sampling	
180-103766-4	SGWA-25	Total/NA	Water	Field Sampling	
180-103766-5	FB-1(AP)	Total/NA	Water	Field Sampling	
180-103814-1	SGWA-1	Total/NA	Water	Field Sampling	
180-103814-2	SGWA-4	Total/NA	Water	Field Sampling	
180-103814-3	SGWA-24	Total/NA	Water	Field Sampling	

### Analysis Batch: 311154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total/NA	Water	Field Sampling	
180-103979-2	SGWC-20	Total/NA	Water	Field Sampling	
180-103979-3	SGWC-21	Total/NA	Water	Field Sampling	

### Analysis Batch: 311585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104016-1	SGWC-17	Total/NA	Water	Field Sampling	
180-104016-2	SGWC-23	Total/NA	Water	Field Sampling	
180-104016-3	SGWC-22	Total/NA	Water	Field Sampling	
180-104069-1	SGWC-6	Total/NA	Water	Field Sampling	
180-104069-2	SGWC-8	Total/NA	Water	Field Sampling	
180-104069-3	SGWC-9	Total/NA	Water	Field Sampling	
180-104069-4	SGWC-10	Total/NA	Water	Field Sampling	
180-104069-5	SGWC-11	Total/NA	Water	Field Sampling	
180-104107-1	SGWC-13	Total/NA	Water	Field Sampling	
180-104107-2	SGWC-14	Total/NA	Water	Field Sampling	
180-104107-3	SGWC-15	Total/NA	Water	Field Sampling	
180-104107-4	SGWC-16	Total/NA	Water	Field Sampling	
180-104108-1	SGWC-7	Total/NA	Water	Field Sampling	
180-104108-2	SGWC-12	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

## Field Service / Mobile Lab (Continued)

### Analysis Batch: 311585 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104108-3	SGWC-18	Total/NA	Water	Field Sampling	

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Client Contact: [Blank]  
 Project Manager: Dawn Pordl  
 Lab Contact: Chris Tolwell  
 Lab Contact: Vanessa Borzot  
 Lab Contact: [Blank]

Regulatory Program:  Air  EHS  Soil  Other: \_\_\_\_\_

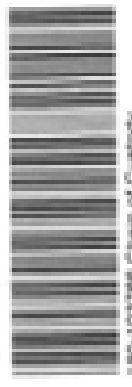
Site Contact: Chris Tolwell  
 Date: 3/17/20  
 CAS#: [Blank]

Site: Georgia  
 Project Name: OCM - Plant Screen Air Pond

Site Address: [Blank]  
 City: [Blank]  
 State: [Blank]  
 Zip: [Blank]

Project Name: OCM - Plant Screen Air Pond

Sample Identification	Sample Date	Sample Time	Sample Type (e.g., Water, Soil)	# of Containers	Analysis Turnaround Time (AT)				Sample Specific Notes
					1 Day	2 Days	3 Days	5 Days	
SOVA-5	3/17/2020	14:25	Water	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOVA-5
SOVA-3	3/17/2020	18:38	Water	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOVA-3
SOVA-2	3/17/2020	14:30	Water	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOVA-2
SOVA-25	3/17/2020	19:45	Water	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SOVA-25
FB-1147	3/17/2020	-	Water	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FB-1147



Preservation Used:  Ice,  Ice/2,  Ice/4,  Ice/24,  Ice/48,  Ice/96,  Other \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client  Destroyed  Other \_\_\_\_\_

Signature: [Handwritten Signature] Date: 3/18/20

Signature: [Handwritten Signature] Date: 3/18/20

Signature: [Handwritten Signature] Date: 3/18/20



TestAmerica Pittsburgh  
 301 Alpha Drive  
 RDC Park  
 Pittsburgh, PA 15204-2907  
 Phone: 412.953.7058 Fax: 412.953.2458

Atlanta

### Chain of Custody Record

TestAmerica  
 LABORATORY SERVICES

TestAmerica Laboratories, Inc.

Client Contact: **250 Abraham** Regulatory Program:  Air  Sewer  Storm  Other  Date: 3/18/2020  
 Project Manager: **Devin Prall** Lab Contact: **Veronica Borstell** Carrier: **1001** of **1** COCs

Analysis Turnaround Time:  Callout (hrs)  Express (hrs)  
 Turnaround time below:  24 hrs  2 weeks  1 week  2 days  1 day

Project Name: **CCR - Plant Scherer Ash Pond**  
 Site: **Georgia**  
 P O # **1801884**

Sample Identification	Sample Date	Sample Time	Sample Type (e.g., water, soil)	Matrix	# of Containers	Analysis				Sample Specific Notes
						1	2	3	4	
50788-1	3/18/2020	14:50	G	Water	4	X	X	X	X	John B. Prall
50788-1	3/18/2020	14:50	G	Water	4	X	X	X	X	John B. Prall
50788-24	3/18/2020	13:22	G	Water	4	X	X	X	X	John B. Prall
FD-1 (MS)	3/18/2020	--	G	Water	4	X	X	X	X	John B. Prall
EB-1 (SP)	3/18/2020	18:00	G	Water	4	X	X	X	X	John B. Prall



Preservation Used:  Ice  Ice/No Ice  No Ice/No Coolant  Other  
 Possible Hazard Identification:  No  Yes  
 Comments: Section 8 the lab is to dispose of the sample.  
 Special Instructions/OC Requirements & Comments:

Sample Disposed (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Discard in Lab  Destroy by \_\_\_\_\_ Month(s)

Custody Seal No.:  Yes  No  No  
 Requested by: **Kevin Cook** Date Time: **3/19/20 8:25**  
 Received by: **Veronica Borstell** Date Time: **3/19/20 8:25**  
 Company: **Veronica Borstell**  
 Received by: **Veronica Borstell** Date Time: **3/19/20 8:25**  
 Company: **Veronica Borstell**

Form No. CA-COC-002, Rev. 4/00, 09/2019

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Client Contact: **Agri Abraham**  
 Project Manager: **Down Ford**  
 TSP#s: 149-034-0449

Site Contact: **Clara Tibbitt**  
 Lab Contact: **Veronica Borjas**

Center: **Center 302008**

COC No: \_\_\_\_\_ of \_\_\_\_\_ COCs

Sampler: \_\_\_\_\_

For Lab Use Only:  
 Within Client Lab Sampling

LAB USE ONLY

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Matrix Com.	Preservation Method				Comments
						Refrigerated	Frozen	Other	None	
50962-19	3/23/20	17:45	G	Water	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50962-20	3/23/20	18:35	G	Water	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50962-21	3/23/20	18:35	G	Water	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
EB-2047	3/23/20	18:00	G	Water	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FD-2047	-	-	G	Water	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Preservation Used:  Ice,  HD,  HD/CO,  HD/CO,  HD/CO,  Other

Available Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Site Used  Recycled  Site Used

Special Instructions/CC Requirements & Comments:

Custody Seal No: \_\_\_\_\_

Sealed by: **Clara Tibbitt** Date/Time: **3/23/20 18:10**

Sealed by: **Clara Tibbitt** Date/Time: **3/23/20 18:10**

Sealed by: **Clara Tibbitt** Date/Time: **3/23/20 18:10**

Carrier: **Blaine Cook** Carrier No: **324-20** Date/Time: **3/24/20 8:20**

Carrier: **Blaine Cook** Carrier No: **324-20** Date/Time: **3/24/20 8:20**

Carrier: **Blaine Cook** Carrier No: **324-20** Date/Time: **3/24/20 8:20**



# Chain of Custody Record

TestAmerica Laboratories, Inc.

Regulatory Program:  SW  TSD  RCRA  Other

Sales Contact: Chris Tidwell Date: 3/25/20  
Lab Contact: Vernice Boring

Project Manager: Dawn Freil  
Tel/Fax: 248-824-8848

Client Contact: [Blank]

COC No: 1 of 1 COCs

Sample: [Blank]

For Lab Use Only  
Walk-in Client  
Lab Sampling

Job: 1800 Mo

Sample Specifics Notes:

pH = 8.21  
pH = 8.00  
pH = 8.42

180-1800's Chain of Custody

Sample ID	Sample Type	Sample Time	Sample Location	Matrix	# of Containers	Analysis Turnaround Time		Analysis Method	Lab Contact: Vernice Boring					
						Analysis Method	Analysis Method		SW	TSD	RCRA	Other		
304-0000	G	12:02	G	Water	3				X	X	X	X		
304-0000	G	13:06	G	Water	3				X	X	X	X		
304-0000	G	08:49	G	Water	3				X	X	X	X		
304-0000	G	08:30	G	Water	3				X	X	X	X		

Preservation Used: In Ice, In HCl, In HNO3, In H2SO4, In H2O2, In NaOH, In Other

Proximate Hazard Identification: [Blank]

Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Comments Section: [Blank]

Special Instructions/Regulatory Requirements & Comments: [Blank]

Chain of Custody:

Company	Date/Time	Signature	Role
Environ	3/25/20	[Signature]	Generator
Environ	3/25/20	[Signature]	Transporter
Environ	3/25/20	[Signature]	Receiver

COC No: 1 of 1

Form No. CAC-99-001, Rev. 4-19, dated 3/28/2018



**TestAmerica Pittsburgh**  
501 Alpha Drive  
ROSC Park

681-Atlanta

**Chain of Custody Record**

**TestAmerica**

Pittsburgh, PA 15228-2807  
phone 412.463.7058 fax 412.463.3469

TestAmerica Laboratories, Inc.  
COC No. 1 of 1 COCs

**Client Contact:** John Abraham  
**Regulatory Program:**  SW  WQS  IOW  IAW  Other  
**Project Manager:** Dawn Prall  
**Site Contact:** Chris Truesell  
**Tel/Fax:** 484-538-4445  
**Lab Contact:** Veronica Borbot

**Sample Identification**

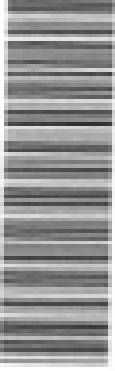
Sample ID	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Analysis Turnaround Time	
						<input type="checkbox"/> Routine Cont.	<input type="checkbox"/> Retained Cont.
SOHC-8	3/25/2020	11:20	G	Water	3	<input checked="" type="checkbox"/> 2 weeks	<input type="checkbox"/> 3-5 days
SOHC-8	3/25/2020	09:15	G	Water	3	<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 3-5 days
SOHC-8	3/25/2020	09:18	G	Water	3	<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 3-5 days
SOHC-10	3/25/2020	11:03	G	Water	3	<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 3-5 days
SOHC-11	3/25/2020	11:58	G	Water	3	<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 3-5 days
EB-SAP	3/25/2020	11:45	G	Water	3	<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 3-5 days
FO-SAP	-	-	G	Water	3	<input type="checkbox"/> 2 weeks	<input type="checkbox"/> 3-5 days

**Preservation Used:** 1= Ice, 2= HCl, 3= HNO3, 4= H2O2, 5= H2SO4, 6= HClO4, 7= Other

**Analysis Turnaround Time:**  Routine Cont.  Retained Cont.

**Sample Disposal:** (A fee may be assessed if samples are retained longer than 1 month)

Sample ID	Retained in Client		Retained in Lab		Months	# of Cont.
	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
SOHC-8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	3
SOHC-8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	3
SOHC-8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	3
SOHC-10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	3
SOHC-11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	3
EB-SAP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	3
FO-SAP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	3



150-10-0059 Chain of Custody

**Special Instructions:**  Discontinue Requirements & Comments

**Comments:** Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Retained  Discontinue  Sample  Unknown

**Custody Seal No.:** 324-20-0935

**Company:** Chlorine New

**Operator:** Relain Cook

**Date/Time:** 3/25/20 8:15

**Signature:** Relain Cook

**Company:** Chlorine New

**Client Contact:** Soju Abraham, Southern Company, 241 Ralph McGill Blvd SE, B10785, Atlanta, GA 30308  
**Project Name:** CCR - Plant Scherer Ash Pond  
**Site:** Georgia  
**P.O. #:** 11870884

**Project Manager:** Dawn Prall  
**Tel/Fax:** 248-520-5448

**Analysis Turnaround Time:**  
 Current Day  Extended Days  
 2 weeks  3-4 days  
 1 month  2 days  
 2 months  1 day

**Date:** 3/27/08  
**Date:** 3/27/08  
**Site Contact:** Chris Tibbitt  
**Lab Contact:** Veronica Borstad

COC No: 1 of 1 COCs

Sample Identification	Sample Date	Sample Time	Sample Type (e.g., Water, Soil)	Metric	# of Cont.	4	1	4	Sample Specific Notes
SOMC-13	3/27/08	9:10	Water		3	X	X	X	Site 5.09
SOMC-14	3/27/08	10:04	Water		3	X	X	X	Site 3.74
SOMC-15	3/27/08	08:48	Water		3	X	X	X	Site 4.51
SOMC-16	3/27/08	10:09	Water		3	X	X	X	Site 8.17



**Preservation Used:** Ice, Ice/Hot, Ice/Hot/4, Ice/Hot/5, Ice/Hot/6, Ice/Hot/7, Ice/Hot/8, Ice/Hot/9, Ice/Hot/10, Ice/Hot/11, Ice/Hot/12, Ice/Hot/13, Ice/Hot/14, Ice/Hot/15, Ice/Hot/16, Ice/Hot/17, Ice/Hot/18, Ice/Hot/19, Ice/Hot/20, Ice/Hot/21, Ice/Hot/22, Ice/Hot/23, Ice/Hot/24, Ice/Hot/25, Ice/Hot/26, Ice/Hot/27, Ice/Hot/28, Ice/Hot/29, Ice/Hot/30, Ice/Hot/31, Ice/Hot/32, Ice/Hot/33, Ice/Hot/34, Ice/Hot/35, Ice/Hot/36, Ice/Hot/37, Ice/Hot/38, Ice/Hot/39, Ice/Hot/40, Ice/Hot/41, Ice/Hot/42, Ice/Hot/43, Ice/Hot/44, Ice/Hot/45, Ice/Hot/46, Ice/Hot/47, Ice/Hot/48, Ice/Hot/49, Ice/Hot/50, Ice/Hot/51, Ice/Hot/52, Ice/Hot/53, Ice/Hot/54, Ice/Hot/55, Ice/Hot/56, Ice/Hot/57, Ice/Hot/58, Ice/Hot/59, Ice/Hot/60, Ice/Hot/61, Ice/Hot/62, Ice/Hot/63, Ice/Hot/64, Ice/Hot/65, Ice/Hot/66, Ice/Hot/67, Ice/Hot/68, Ice/Hot/69, Ice/Hot/70, Ice/Hot/71, Ice/Hot/72, Ice/Hot/73, Ice/Hot/74, Ice/Hot/75, Ice/Hot/76, Ice/Hot/77, Ice/Hot/78, Ice/Hot/79, Ice/Hot/80, Ice/Hot/81, Ice/Hot/82, Ice/Hot/83, Ice/Hot/84, Ice/Hot/85, Ice/Hot/86, Ice/Hot/87, Ice/Hot/88, Ice/Hot/89, Ice/Hot/90, Ice/Hot/91, Ice/Hot/92, Ice/Hot/93, Ice/Hot/94, Ice/Hot/95, Ice/Hot/96, Ice/Hot/97, Ice/Hot/98, Ice/Hot/99, Ice/Hot/100

**Sample Disposal:** (A fee may be assessed if samples are retained longer than 1 month)

**Received by:** [Signature] Company: [Name] Date/Time: [Date/Time]

**Received by:** [Signature] Company: [Name] Date/Time: [Date/Time]

**Received by:** [Signature] Company: [Name] Date/Time: [Date/Time]



Regulatory Program:  DW  RCRA  PCBs  Other  Other  
 Project Manager: Dawn Proff  
 Tel/Fax: 248-538-5445  
 Project Name: CCR - Plant Scherer Ash Pond  
 Site: Georgia  
 P.O.# 1801984

Client Contact  
 Soja Abraham  
 Southern Company  
 241 Ralph McGill Blvd SE B15185  
 Atlanta, GA 30339

TestAmerica Laboratories, Inc.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	pH				Sample Specific Notes
						1	2	3	4	
80WC-7	3/28/2020	16:24	0	Water	3	X	X	X	X	pH = 6.52
80WC-12	3/28/2020	16:00	0	Water	4	X	X	X	X	pH = 8.10; Extra Radium bottle
80WC-18	3/28/2020	16:28	0	Water	3	X	X	X	X	pH = 4.74
FB-2 (MP)	3/28/2020	17:00	0	Water	3	X	X	X	X	



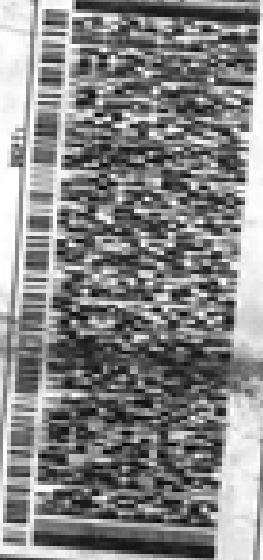
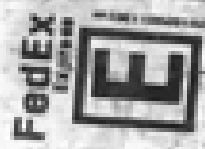
Preservation Used: 1= Ice; 2= RC3; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other  
 Possible Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Inorganic  Organic  Other  
 Special Instructions/QC Requirements & Comments:

Company	Date/Time	Received by	Company	Date/Time	Received by	Company	Date/Time
Company	3-27-20	[Signature]	Company	3-27-20	[Signature]	Company	3-27-20
Company	3-27-20	14:23	Company	3-27-20	14:23	Company	3-27-20

Form No. CA-C-WI-002, Rev. 4-08, dated 3/28/2018

SHIP DATE: 03/19/20  
ACTUAL TIME: 10:30A  
CITY: PITTSBURGH  
STATE: PA  
ZIP: 15238  
BILL TO: PARTY

TO: SHALI BROWN  
EUROFINS TEST AMERICA  
301 ALPHA DR RIDC PARK  
PITTSBURGH PA 15238

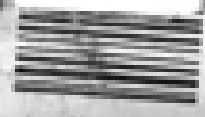


THU - 19 MAR 10:30A  
PRIORITY OVERNIGHT  
AHS  
15238  
PIT

3912 2002 4924

NA AGCA

Uncorrected temp  
Thermometer ID  
CF  Initials JD



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Environn  
TestAmerica

CRISTO PULLER (479) 968-8883  
5000  
EUROFINS TESTAMERICA  
3000 ROXBOROUGH DRIVE  
FALLS CHURCH, VA 22034  
EUROFINS TESTAMERICA  
UNITED STATES OF AMERICA

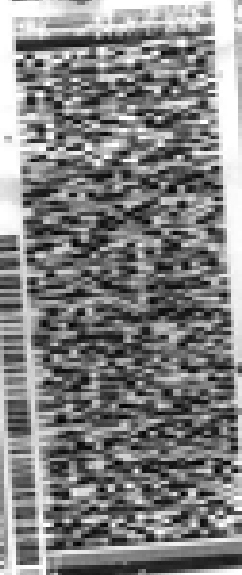


180-10298 174001

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

479-968-7888  
REP. SOUTHERN CO

FedEx  
E



THU - 19 MAR 3  
STANDARD OVERNIGHT

2 of 2

SHIP 1516 9323 1951

Master# 1516 9323 1940

NA AGCA

Uncorrected temp  
Thermometer ID 3.4 / 17

CF 0 Initials J

PROHIBITION AGAINST TAPING



97

Environment Testing  
TestAmerica

479-968-7888

RECEIVING  
EUROFINS TESTAMERICA  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REP. SOUTHERN CO

FedEx  
E



THU - 19 MAR 3:00P  
STANDARD OVERNIGHT  
15238  
PIT

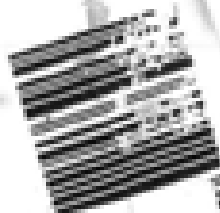
SHIP 1516 9323 1940

NA AGCA

Uncorrected temp  
Thermometer ID 11 / 11

CF 0 Initials J

PROHIBITION AGAINST TAPING



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Environment TestAmerica

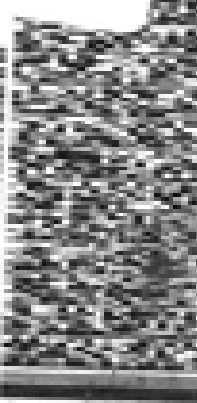
1697

1516 9323 2054  
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1516 9323 2054

SAMPLE RECEIVING  
EUROFINS TESTAMERICA  
301 ALPHA DR.  
RIDC PARK

PITTSBURGH PA 15238

REF: GOLDBERGER



FRI - 20 MAR 3:00P  
STANDARD OVERNIGHT

2 of 3  
1516 9323 2054  
Master 1516 9323 2053

NA AGCA

15238  
PA - US  
PIT

Uncorrected Temp  
Thermometer ID  
CF

Initials  
P



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ORIGIN 0151174 01051 001-0000  
FIRST CLASS PERMIT NO. 3747  
PHILADELPHIA PA 19104  
SUIE C-10  
NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

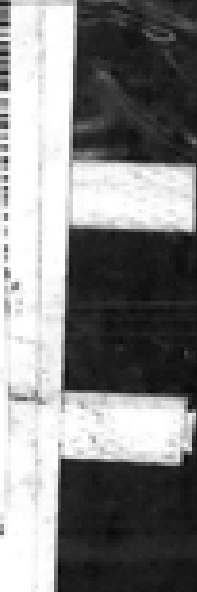
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**EUROFINS TESTAMERICA PITTSBURGH**  
**301 ALPHA DR.**  
**RIDG PARK**  
**PITTSBURGH PA 15238**  
4122 001-0000  
REP: SOLDER - SCHERER



**1 of 3**  
**FRI - 20 MAR**  
**STANDARD OVERNIGHT**  
1516 9323 2053  
REP: MASTER #

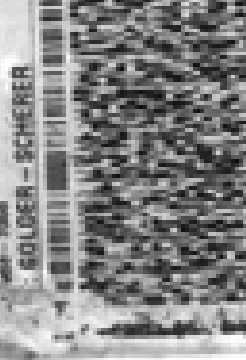
**NA AGCA**

Unconnected Temp Thermometer ID  
CF Q Initials JS



ORIGIN 0151174 01051 001-0000  
FIRST CLASS PERMIT NO. 3747  
PHILADELPHIA PA 19104  
SUIE C-10  
NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

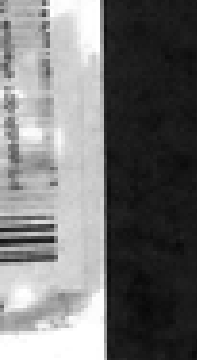
**TO SAMPLE RECEIVING**  
**EUROFINS TESTAMERICA P**  
**301 ALPHA DR.**  
**RIDG PARK**  
**PITTSBURGH PA 15238**  
4122 001-0000  
REP: SOLDER - SCHERER



**3 of 3**  
**FRI - 20 MAR**  
**STANDARD OVERNIGHT**  
1516 9323 2075  
REP: J...

**NA AGCA**

Unconnected Temp Thermometer ID  
CF Q Initials JS



1 15:00 2015 03:00 A

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Environment Testing  
TestAmerica

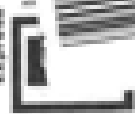
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SHIP TIME: 11:00 AM  
SHIP TO: 1516 9323 2248  
SHIP FROM: 1516 9323 2248  
UNITED STATES OF AMERICA

SHIP DATE: 03/18  
SHIP TIME: 11:00 AM  
SHIP TO: 1516 9323 2248  
SHIP FROM: 1516 9323 2248  
UNITED STATES OF AMERICA

BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: GOLDBL - SCHENCK



1 of 2  
WED - 25 MAR  
STANDARD OVERNIGHT

1516 9323 2248

NA AGCA

15238  
PA-US  
PIT



Uncorrected temp  
Thermometer ID

CF 0 Initials B

PT-1000-001 effective 11/01/11

150 103879 15000



TestAmerica

SHIP DATE: 03/18  
SHIP TIME: 11:00 AM  
SHIP TO: 1516 9323 2248  
SHIP FROM: 1516 9323 2248  
UNITED STATES OF AMERICA

SHIP DATE: 03/18  
SHIP TIME: 11:00 AM  
SHIP TO: 1516 9323 2248  
SHIP FROM: 1516 9323 2248  
UNITED STATES OF AMERICA

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: GOLDBL - SCHENCK



150 103879 15000

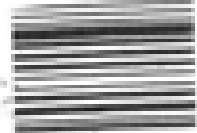


2 of 2  
WED - 25 MAR  
STANDARD OVERNIGHT

1516 9323 2259

NA AGCA

15238  
PA-US  
PIT



Uncorrected temp  
Thermometer ID

CF 0 Initials B

PT-1000-001 effective 11/01/11

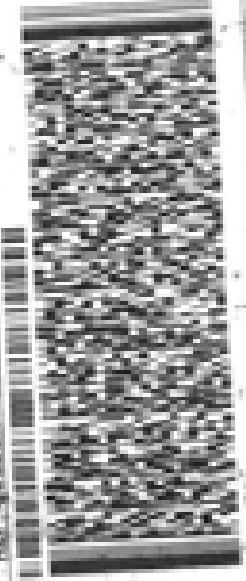


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ORIGIN BILLING (L) 6761 864-8885  
ORIGIN BILLING (L) 6761 864-8885  
ORIGIN BILLING (L) 6761 864-8885  
ORIGIN BILLING (L) 6761 864-8885  
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ORIGIN BILLING (L) 6761 864-8885

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: GOLDR - SCHERER



THU - 26 MAR 3:00P  
STANDARD OVERNIGHT

1516 9323 2270

NA AGCA

15238  
PA-05  
PIT

Uncorrected temp  
Thermometer ID

CF 0 Initials JS



180-184016 wrapall

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eurofins

197

1578  
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1578

DRUSIN 1578 1578 (678) 988-88  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
1578 C-10  
1578

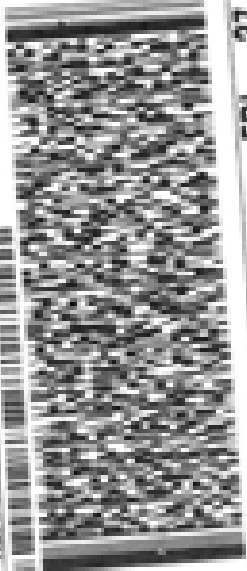
SHIP DATE: 03/27/20  
SHIP TO: 1578 1578  
SHIP TO: 1578 1578

BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: SOUTHERN CO

FedEx  
Express  
**E**



FRI - 27 MAR 3:00P  
STANDARD OVERNIGHT

1 of 2  
MAY# 1516 9323 2410  
Master# 1516 9323 2400

15238  
PA-US  
PIT

NA AGCA

Uncorrected temp: 34.1  
Thermometer ID: 17

eurofins



DRUSIN 1578 1578 (678) 988-88  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
1578 C-10  
1578

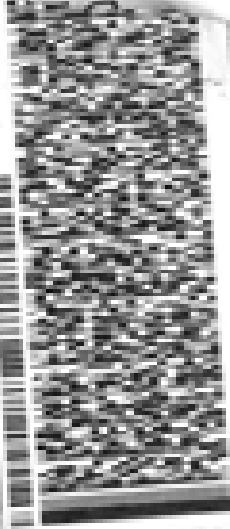
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SHIP TO: 1578 1578  
SHIP TO: 1578 1578

BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: SOUTHERN CO

FedEx  
Express  
**E**



FRI  
STANDARD OVERNIGHT

1 of 2  
MAY# 1516 9323 2400  
Master# 1516 9323 2400

15238  
PA-US  
PIT

NA AGCA

Uncorrected temp: 34.1  
Thermometer ID: 17

CF 17

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Environment Testing  
TestAmerica

ORIGIN 101174 (678) 566-6665  
SHIP DATE: 2/20/20  
SHIP TO: 301 ALPHA DR.  
EUROFINS TESTAMERICA  
PITTSBURGH PA 15238  
BILL TO: 301 ALPHA DR.  
EUROFINS TESTAMERICA  
PITTSBURGH PA 15238

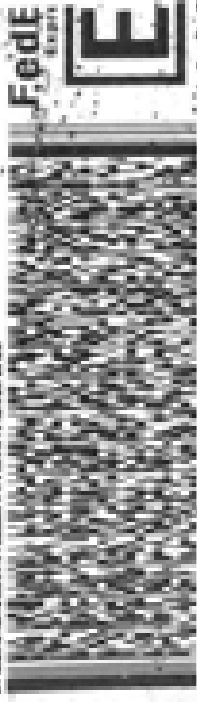
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SHIP TO: 301 ALPHA DR.  
EUROFINS TESTAMERICA  
PITTSBURGH PA 15238  
BILL TO: 301 ALPHA DR.  
EUROFINS TESTAMERICA  
PITTSBURGH PA 15238

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

(412) 566-7000  
REF: SOUTHERN CO

(412) 566-7000  
REF: SOUTHERN CO



1 of 4  
TRK 1516 9323 2455  
SATURDAY 12:00L  
PRIORITY OVERNIGHT  
15238  
PA-US PIT

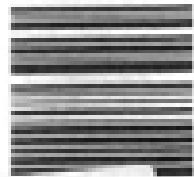
2 of 4  
MPS 1516 9323 2476  
SATURDAY 12:00P  
PRIORITY OVERNIGHT  
15238  
PA-US PIT

XO AGCA

Uncorrected temp  $\frac{41.1}{17}^{\circ}\text{C}$   
Thermometer ID  
CF 0 Initials IL

XO AGCA

received temp  $\frac{41.1}{17}^{\circ}\text{C}$   
Thermometer ID  
CF 0 Initials IL



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Environment  
TestAmerica

1200  
4  
639

ORIGIN: BULLITT (CEN) 999-0000  
CITY: BULLITT  
COUNTY: SUTTER  
STATE: CALIFORNIA  
ADDRESS: 1010 N  
SUITE 100  
SUTTER, CA 95958  
UNITED STATES US

SHIP DATE: 07/20/2020  
ACTIVITY: 1010 N  
CEN: BULLITT-CALIFORNIA  
BILL RECIPIENT

TO: SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

4710 999-7008  
REF: SOUTHERN 90



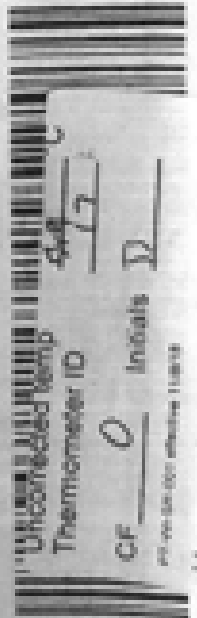
FedEx  
Express



3 of 4  
SHIP DATE: 07/20/2020  
SHIP TIME: 12:00 PM  
SHIP METHOD: PRIORITY OVERNIGHT  
SHIP WEIGHT: 1.00 LB  
SHIP WEIGHT UNIT: LB  
SHIP VOLUME: 1  
SHIP VOLUME UNIT: CU FT  
SHIP CLASSIFICATION: 0001  
SHIP CLASSIFICATION DESCRIPTION: UNRESTRICTED  
SHIP CLASSIFICATION CODE: 0001

XO AGCA

15238  
PA-US  
PIT



UNCORRECTED TEMP  
Thermometer ID  
CF 0 Initials D  
PHYSICIAN SIGNATURE  
U.S.



Environment Testing  
TestAmerica

ORIGIN: BULLITT (CEN) 999-0000  
CITY: BULLITT  
COUNTY: SUTTER  
STATE: CALIFORNIA  
ADDRESS: 1010 N  
SUITE 100  
SUTTER, CA 95958  
UNITED STATES US

SHIP DATE: 07/20/2020  
ACTIVITY: 1010 N  
CEN: BULLITT-CALIFORNIA

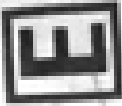
BILL RECIPIENT

TO: SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

4710 999-7008  
REF: SOUTHERN 90



FedEx  
Express



4 of 4  
SHIP DATE: 07/20/2020  
SHIP TIME: 12:00 PM  
SHIP METHOD: PRIORITY OVERNIGHT  
SHIP WEIGHT: 1.00 LB  
SHIP WEIGHT UNIT: LB  
SHIP VOLUME: 1  
SHIP VOLUME UNIT: CU FT  
SHIP CLASSIFICATION: 0001  
SHIP CLASSIFICATION DESCRIPTION: UNRESTRICTED  
SHIP CLASSIFICATION CODE: 0001

XO A

15238  
PA-US  
PIT

UNCORRECTED TEMP  
Thermometer ID  
CF 0 Initials D  
PHYSICIAN SIGNATURE  
U.S.





Environment Testing  
TestAmerica

ORIGIN: BOLLING (678) 966-9991  
SHIP DATE: 05/04/20  
SHIP DATE: 05/04/20  
ACTIVITY: 410 10 AM  
CARRIER: 1516 9323 2465  
SHIP TO: TESTAMERICA  
6500 ROXBOROUGH DRIVE  
SUITE C-10  
ROXBORO, NH 03095  
UNITED STATES US

SHIP DATE: 05/04/20  
ACTIVITY: 410 10 AM  
CARRIER: 1516 9323 2465  
SHIP TO: TESTAMERICA  
6500 ROXBOROUGH DRIVE  
SUITE C-10  
ROXBORO, NH 03095  
UNITED STATES US

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
410 966-7006  
REF: SOUTHERN CO

SHIP DATE: 05/04/20  
ACTIVITY: 410 10 AM  
CARRIER: 1516 9323 2465

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
410 966-7006  
REF: SOUTHERN CO

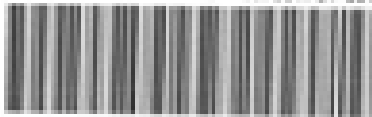
1516 9323 2465

FedEx  
Express



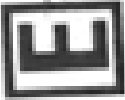
1 of 4  
TRK# 1516 9323 2465  
REF MASTER #  
**XO AGCA**  
SATURDAY 12:00P  
PRIORITY OVERNIGHT  
15238  
PA-US -PIT

Uncorrected temp 4.1 °C  
Thermometer ID 17  
CF 0 Initials IL  
PT 1516 9323 2465 (6501)



1516 9323 2465

FedEx  
Express



2 of 4  
TRK# 1516 9323 2476  
Master 1516 9323 2465 (6501)  
**XO AGCA**  
SATURDAY 12:00P  
PRIORITY OVERNIGHT  
15238  
PA-US -PIT

Corrected temp 4.1 °C  
Thermometer ID 17  
CF 0 Initials IL  
PT 1516 9323 2476 (6501)



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Environment  
TestAmerica

1208  
4  
639

ORDER FULLY (FORM 999-9999)  
ORDER PARTIAL  
ORDER NOT TESTED/PAID  
ORDER RECEIVED/PAID  
SUITE C-10  
ROCKFORD, IL 60000  
UNITED STATES US

SHIP DATE: 07/20/20  
ACTUAL: 07/15/20  
CONF: 0001-0010012  
BILL RECIPIENT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

470 999-7000  
REF: SOUTHERN 90



FedEx  
Express



3 of 4  
SHIP DATE: 07/20/20  
SHIP TO: 1516 9323 2487  
Metric# 1516 9323 2405

**XO AGCA** SATURDAY 12:00P  
PRIORITY OVERNIGHT 15238  
PA-US PIT

Unconnected Temp Thermometer ID  
CF 0 Initials D  
PIT-1516-9323-2405



Environment Testing  
TestAmerica

ORDER FULLY (FORM 999-9999)  
ORDER PARTIAL  
ORDER NOT TESTED/PAID  
ORDER RECEIVED/PAID  
SUITE C-10  
ROCKFORD, IL 60000  
UNITED STATES US

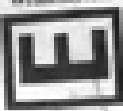
SHIP DATE: 07/20/20  
ACTUAL: 07/15/20  
CONF: 0001-0010012  
BILL RECIPIENT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

470 999-7000  
REF: SOUTHERN 90



FedEx  
Express



4 of 4  
SHIP DATE: 07/20/20  
SHIP TO: 1516 9323 2498  
Metric# 1516 9323 2405

**XO A** SATURDAY 12:00P  
PRIORITY OVERNIGHT 15238  
PA-US PIT

Unconnected Temp Thermometer ID  
CF 0 Initials D  
PIT-1516-9323-2405

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-1

**Login Number: 103766**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-1

**Login Number: 103814**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-1

**Login Number: 103979**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-1

**Login Number: 104016**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-1

**Login Number: 104069**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-1

**Login Number: 104107**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-1

**Login Number: 104108**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-103766-2  
Client Project/Site: Plant Scherer Ash Pond  
Revision: 1

For:  
Southern Company  
PO BOX 2641 GSC8  
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:  
5/11/2020 4:57:30 PM

Shali Brown, Project Manager II  
(615)301-5031  
[shali.brown@testamericainc.com](mailto:shali.brown@testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Job ID: 180-103766-2

Laboratory: Eurofins TestAmerica, Pittsburgh

### Narrative

#### Job Narrative 180-103766-2

#### Comments

051120 Revised report to remove all jobs except the following at consultant's request: 180-103766-1; 180-103814-1; 180-103979-1; 180-104016-1; 180-104069-1; 180-104107-1; 180-108-1. This report replaces the report previously issued on 043020.

#### Receipt

The samples were received on 3/19/2020 8:30 AM, 3/20/2020 9:00 AM, 3/25/2020 9:30 AM, 3/26/2020 9:00 AM, 3/27/2020 9:00 AM and 3/28/2020 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 18 coolers at receipt time were 1.1° C, 1.3° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 2.0° C, 2.0° C, 2.2° C, 2.4° C, 2.4° C, 3.1° C, 3.7° C, 3.9° C, 3.9° C, 4.0° C, 4.1° C and 4.1° C.

#### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custodies

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC was not relinquished. 180-103814-1

#### RAD

Methods 903.0, 9315: Ra-226 Prep Batch 160-465458

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-5 (180-103766-1), SGWA-3 (180-103766-2), SGWA-2 (180-103766-3), SGWA-25 (180-103766-4), FB-1(AP) (180-103766-5), (LCS 160-465458/1-A), (MB 160-465458/22-A) and (180-103766-A-3-B DU)

Methods 903.0, 9315: Ra-226 Prep Batch 160-465545

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-1 (180-103814-1), SGWA-4 (180-103814-2), SGWA-24 (180-103814-3), (LCS 160-465545/1-A), (LCSD 160-465545/2-A) and (MB 160-465545/23-A)

Method 9315: Ra-226 Prep Batch 160-466131

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWC-19 (180-103979-1), SGWC-20 (180-103979-2), SGWC-21 (180-103979-3), EB-2(AP) (180-103979-4), FD-2(AP) (180-103979-5), SGWC-17 (180-104016-1), SGWC-23 (180-104016-2), SGWC-22 (180-104016-3), FB-2(AP) (180-104016-4), (LCS 160-466131/1-A), (MB 160-466131/23-A), (240-128229-A-4-A MS) and (240-128229-L-4-A MSD)

Method 9315: Radium-226 Prep Batch 160-466598

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWC-6 (180-104069-1), SGWC-8 (180-104069-2), SGWC-9 (180-104069-3), SGWC-10 (180-104069-4), SGWC-11 (180-104069-5), EB-3(AP) (180-104069-6), FD-3(AP) (180-104069-7), SGWC-13 (180-104107-1), SGWC-14 (180-104107-2), SGWC-15 (180-104107-3), SGWC-16 (180-104107-4), (LCS 160-466598/1-A) and (MB 160-466598/21-A)

Methods 903.0, 9315: Ra-226 Prep Batch 160-466707

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWC-7 (180-104108-1), SGWC-12 (180-104108-2), SGWC-18 (180-104108-3), FB-3 (AP) (180-104108-4), (LCS 160-466707/1-A), (MB 160-466707/23-A) and (180-104108-A-2-B DU)

# Case Narrative

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Job ID: 180-103766-2 (Continued)

### Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method 9320: Radium-228 Prep Batch 160-465549

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-1 (180-103814-1), SGWA-4 (180-103814-2), SGWA-24 (180-103814-3), GWA-41 (180-103892-1), FD-1(C3) (180-103892-2), (LCS 160-465549/1-A), (LCSD 160-465549/2-A) and (MB 160-465549/23-A)

Method 9320: Ra-228 Prep Batch 160-466601

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWC-6 (180-104069-1), SGWC-8 (180-104069-2), SGWC-9 (180-104069-3), SGWC-10 (180-104069-4), SGWC-11 (180-104069-5), EB-3(AP) (180-104069-6), FD-3(AP) (180-104069-7), SGWC-13 (180-104107-1), SGWC-14 (180-104107-2), SGWC-15 (180-104107-3), SGWC-16 (180-104107-4), (LCS 160-466601/1-A), (MB 160-466601/21-A) and (400-186042-A-47-F MSD)

Methods 904.0, 9320: Ra-228 Prep Batch 160-466715

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWC-7 (180-104108-1), SGWC-12 (180-104108-2), SGWC-18 (180-104108-3), FB-3 (AP) (180-104108-4), (LCS 160-466715/1-A), (MB 160-466715/23-A), (180-104108-A-2-C) and (180-104108-A-2-D DU)

Methods 904.0, 9320: Radium-228 Prep Batch 160-468060

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWA-5 (180-103766-1), SGWA-3 (180-103766-2), SGWA-2 (180-103766-3), SGWA-25 (180-103766-4), FB-1(AP) (180-103766-5), (LCS 160-468060/1-A), (LCSD 160-468060/2-A) and (MB 160-468060/20-A)

Method 9320: Radium-228 Prep Batch 160-466133

The laboratory control sample recovery (LCS, 131%) was above the upper limit of 125%. The MB and MS/MSD are within limits and all samples have MDCs below the client requested limit (RL). The data is reported with this narrative.

SGWC-19 (180-103979-1), SGWC-20 (180-103979-2), SGWC-21 (180-103979-3), EB-2(AP) (180-103979-4), FD-2(AP) (180-103979-5), SGWC-17 (180-104016-1), SGWC-23 (180-104016-2), SGWC-22 (180-104016-3), FB-2(AP) (180-104016-4), (LCS 160-466133/1-A), (MB 160-466133/23-A) and (240-128229-L-4-B MSD)

Method 9320: Radium-228 Prep Batch 160-466133

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

SGWC-19 (180-103979-1), SGWC-20 (180-103979-2), SGWC-21 (180-103979-3), EB-2(AP) (180-103979-4), FD-2(AP) (180-103979-5), SGWC-17 (180-104016-1), SGWC-23 (180-104016-2), SGWC-22 (180-104016-3), FB-2(AP) (180-104016-4), (LCS 160-466133/1-A) and (MB 160-466133/23-A)

Method PrecSep\_0: Radium 228 Prep Batch 160-465549:

Insufficient sample volume was available to perform a sample duplicate for the following samples: SGWA-1 (180-103814-1), SGWA-4 (180-103814-2), SGWA-24 (180-103814-3). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep\_0: Radium 228 Prep Batch 160-468060:

The following samples were prepared at a reduced aliquot due to limited volume: SGWA-5 (180-103766-1), SGWA-3 (180-103766-2), SGWA-2 (180-103766-3), SGWA-25 (180-103766-4) and FB-1(AP) (180-103766-5).

Method PrecSep-21: Radium 226 Prep Batch 160-465545:

Insufficient sample volume was available to perform a sample duplicate for the following samples: SGWA-1 (180-103814-1), SGWA-4

# Case Narrative

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

---

## Job ID: 180-103766-2 (Continued)

---

### Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

(180-103814-2), SGWA-24 (180-103814-3), GWA-41 (180-103892-1) and FD-1(C3) (180-103892-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Result is less than the sample detection limit.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Laboratory: Eurofins TestAmerica, Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	02-00416	04-30-20

## Laboratory: Eurofins TestAmerica, St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	68-00540	02-28-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228		Water	Combined Radium 226 + 228



# Sample Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103766-1	SGWA-5	Water	03/17/20 14:25	03/19/20 08:30	
180-103766-2	SGWA-3	Water	03/17/20 15:38	03/19/20 08:30	
180-103766-3	SGWA-2	Water	03/17/20 14:30	03/19/20 08:30	
180-103766-4	SGWA-25	Water	03/17/20 15:45	03/19/20 08:30	
180-103766-5	FB-1(AP)	Water	03/17/20 00:00	03/19/20 08:30	
180-103814-1	SGWA-1	Water	03/18/20 14:50	03/20/20 09:00	
180-103814-2	SGWA-4	Water	03/18/20 14:50	03/20/20 09:00	
180-103814-3	SGWA-24	Water	03/18/20 13:22	03/20/20 09:00	
180-103979-1	SGWC-19	Water	03/23/20 17:45	03/25/20 09:30	
180-103979-2	SGWC-20	Water	03/23/20 16:35	03/25/20 09:30	
180-103979-3	SGWC-21	Water	03/23/20 16:33	03/25/20 09:30	
180-103979-4	EB-2(AP)	Water	03/23/20 18:00	03/25/20 09:30	
180-103979-5	FD-2(AP)	Water	03/23/20 00:00	03/25/20 09:30	
180-104016-1	SGWC-17	Water	03/24/20 12:02	03/26/20 09:00	
180-104016-2	SGWC-23	Water	03/24/20 10:05	03/26/20 09:00	
180-104016-3	SGWC-22	Water	03/24/20 08:48	03/26/20 09:00	
180-104016-4	FB-2(AP)	Water	03/24/20 08:30	03/26/20 09:00	
180-104069-1	SGWC-6	Water	03/25/20 11:29	03/27/20 09:00	
180-104069-2	SGWC-8	Water	03/25/20 09:15	03/27/20 09:00	
180-104069-3	SGWC-9	Water	03/25/20 09:18	03/27/20 09:00	
180-104069-4	SGWC-10	Water	03/25/20 11:03	03/27/20 09:00	
180-104069-5	SGWC-11	Water	03/25/20 11:56	03/27/20 09:00	
180-104069-6	EB-3(AP)	Water	03/25/20 11:40	03/27/20 09:00	
180-104069-7	FD-3(AP)	Water	03/25/20 00:00	03/27/20 09:00	
180-104107-1	SGWC-13	Water	03/27/20 09:16	03/28/20 10:30	
180-104107-2	SGWC-14	Water	03/27/20 10:04	03/28/20 10:30	
180-104107-3	SGWC-15	Water	03/27/20 08:46	03/28/20 10:30	
180-104107-4	SGWC-16	Water	03/27/20 10:09	03/28/20 10:30	
180-104108-1	SGWC-7	Water	03/26/20 16:34	03/28/20 10:30	
180-104108-2	SGWC-12	Water	03/26/20 16:00	03/28/20 10:30	
180-104108-3	SGWC-18	Water	03/26/20 16:38	03/28/20 10:30	
180-104108-4	FB-3 (AP)	Water	03/26/20 17:00	03/28/20 10:30	



# Method Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

#### Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWA-5**

**Lab Sample ID: 180-103766-1**

Date Collected: 03/17/20 14:25

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.73 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 05:17	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.50 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468601	04/22/20 16:36	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-103766-2**

Date Collected: 03/17/20 15:38

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.67 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 05:17	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.23 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468601	04/22/20 16:36	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWA-2**

**Lab Sample ID: 180-103766-3**

Date Collected: 03/17/20 14:30

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.69 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 05:18	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.58 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468601	04/22/20 16:36	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWA-25**

**Lab Sample ID: 180-103766-4**

Date Collected: 03/17/20 15:45

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.86 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 05:18	CJQ	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWA-25**

**Lab Sample ID: 180-103766-4**

Date Collected: 03/17/20 15:45

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			750.79 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468601	04/22/20 16:36	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: FB-1(AP)**

**Lab Sample ID: 180-103766-5**

Date Collected: 03/17/20 00:00

Matrix: Water

Date Received: 03/19/20 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.67 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 05:18	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.11 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468601	04/22/20 16:36	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWA-1**

**Lab Sample ID: 180-103814-1**

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.08 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:53	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.08 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			467932	04/16/20 10:11	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWA-4**

**Lab Sample ID: 180-103814-2**

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.11 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:53	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: SGWA-4

Date Collected: 03/18/20 14:50

Date Received: 03/20/20 09:00

## Lab Sample ID: 180-103814-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			467932	04/16/20 10:11	SMP	TAL SL

## Client Sample ID: SGWA-24

Date Collected: 03/18/20 13:22

Date Received: 03/20/20 09:00

## Lab Sample ID: 180-103814-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.54 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:53	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.54 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:42	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			467932	04/16/20 10:11	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-19

Date Collected: 03/23/20 17:45

Date Received: 03/25/20 09:30

## Lab Sample ID: 180-103979-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.02 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:42	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.02 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:57	KRR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-20

Date Collected: 03/23/20 16:35

Date Received: 03/25/20 09:30

## Lab Sample ID: 180-103979-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.81 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:42	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.81 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:57	KRR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: SGWC-21

Lab Sample ID: 180-103979-3

Date Collected: 03/23/20 16:33

Matrix: Water

Date Received: 03/25/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.71 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:42	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.71 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:57	KRR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: EB-2(AP)

Lab Sample ID: 180-103979-4

Date Collected: 03/23/20 18:00

Matrix: Water

Date Received: 03/25/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.00 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:42	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.00 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:57	KRR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: FD-2(AP)

Lab Sample ID: 180-103979-5

Date Collected: 03/23/20 00:00

Matrix: Water

Date Received: 03/25/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.45 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:42	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.45 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:58	KRR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-17

Lab Sample ID: 180-104016-1

Date Collected: 03/24/20 12:02

Matrix: Water

Date Received: 03/26/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.97 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:42	CJQ	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: SGWC-17

## Lab Sample ID: 180-104016-1

Date Collected: 03/24/20 12:02

Matrix: Water

Date Received: 03/26/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.97 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:58	KRR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-23

## Lab Sample ID: 180-104016-2

Date Collected: 03/24/20 10:05

Matrix: Water

Date Received: 03/26/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.09 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:43	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.09 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:58	KRR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-22

## Lab Sample ID: 180-104016-3

Date Collected: 03/24/20 08:48

Matrix: Water

Date Received: 03/26/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.74 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:43	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.74 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:58	KRR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: FB-2(AP)

## Lab Sample ID: 180-104016-4

Date Collected: 03/24/20 08:30

Matrix: Water

Date Received: 03/26/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.29 mL	1.0 g	466131	03/30/20 18:25	MNH	TAL SL
Total/NA	Analysis	9315		1			468674	04/23/20 04:43	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.29 mL	1.0 g	466133	03/30/20 18:49	MNH	TAL SL
Total/NA	Analysis	9320		1			468012	04/17/20 11:58	KRR	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: FB-2(AP)**

**Lab Sample ID: 180-104016-4**

**Date Collected: 03/24/20 08:30**

**Matrix: Water**

**Date Received: 03/26/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			468990	04/27/20 13:10	SMP	TAL SL

**Client Sample ID: SGWC-6**

**Lab Sample ID: 180-104069-1**

**Date Collected: 03/25/20 11:29**

**Matrix: Water**

**Date Received: 03/27/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.23 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 05:31	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.23 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:53	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-8**

**Lab Sample ID: 180-104069-2**

**Date Collected: 03/25/20 09:15**

**Matrix: Water**

**Date Received: 03/27/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.55 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 05:31	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.55 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-104069-3**

**Date Collected: 03/25/20 09:18**

**Matrix: Water**

**Date Received: 03/27/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.78 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 05:31	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.78 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: SGWC-10

Lab Sample ID: 180-104069-4

Date Collected: 03/25/20 11:03

Matrix: Water

Date Received: 03/27/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.07 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 05:31	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.07 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-11

Lab Sample ID: 180-104069-5

Date Collected: 03/25/20 11:56

Matrix: Water

Date Received: 03/27/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.56 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 05:31	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.56 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: EB-3(AP)

Lab Sample ID: 180-104069-6

Date Collected: 03/25/20 11:40

Matrix: Water

Date Received: 03/27/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.23 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 05:31	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.23 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: FD-3(AP)

Lab Sample ID: 180-104069-7

Date Collected: 03/25/20 00:00

Matrix: Water

Date Received: 03/27/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.54 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 05:31	KLS	TAL SL
Instrument ID: GFPCBLUE										

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: FD-3(AP)**

**Lab Sample ID: 180-104069-7**

**Date Collected: 03/25/20 00:00**

**Matrix: Water**

**Date Received: 03/27/20 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.54 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-104107-1**

**Date Collected: 03/27/20 09:16**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.88 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 07:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.88 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-14**

**Lab Sample ID: 180-104107-2**

**Date Collected: 03/27/20 10:04**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.68 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 07:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.68 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-104107-3**

**Date Collected: 03/27/20 08:46**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.82 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 07:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.82 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-104107-3**

**Date Collected: 03/27/20 08:46**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL

**Client Sample ID: SGWC-16**

**Lab Sample ID: 180-104107-4**

**Date Collected: 03/27/20 10:09**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.25 mL	1.0 g	466598	04/03/20 08:51	RBR	TAL SL
Total/NA	Analysis	9315		1			468971	04/27/20 07:47	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.25 mL	1.0 g	466601	04/03/20 09:16	RBR	TAL SL
Total/NA	Analysis	9320		1			468147	04/20/20 13:54	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			468977	04/27/20 10:24	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-7**

**Lab Sample ID: 180-104108-1**

**Date Collected: 03/26/20 16:34**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.64 mL	1.0 g	466707	04/06/20 08:26	EJQ	TAL SL
Total/NA	Analysis	9315		1			469145	04/29/20 05:01	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.64 mL	1.0 g	466715	04/06/20 08:45	EJQ	TAL SL
Total/NA	Analysis	9320		1			468443	04/21/20 12:59	CJQ	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469156	04/29/20 10:14	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-104108-2**

**Date Collected: 03/26/20 16:00**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.01 mL	1.0 g	466707	04/06/20 08:26	EJQ	TAL SL
Total/NA	Analysis	9315		1			469145	04/29/20 05:01	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.01 mL	1.0 g	466715	04/06/20 08:45	EJQ	TAL SL
Total/NA	Analysis	9320		1			468443	04/21/20 12:59	CJQ	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469156	04/29/20 10:14	SMP	TAL SL
Instrument ID: NOEQUIP										

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-18**

**Lab Sample ID: 180-104108-3**

**Date Collected: 03/26/20 16:38**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.55 mL	1.0 g	466707	04/06/20 08:26	EJQ	TAL SL
Total/NA	Analysis	9315		1			469145	04/29/20 05:01	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.55 mL	1.0 g	466715	04/06/20 08:45	EJQ	TAL SL
Total/NA	Analysis	9320		1			468443	04/21/20 12:59	CJQ	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469156	04/29/20 10:14	SMP	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: FB-3 (AP)**

**Lab Sample ID: 180-104108-4**

**Date Collected: 03/26/20 17:00**

**Matrix: Water**

**Date Received: 03/28/20 10:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.86 mL	1.0 g	466707	04/06/20 08:26	EJQ	TAL SL
Total/NA	Analysis	9315		1			469145	04/29/20 05:02	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.86 mL	1.0 g	466715	04/06/20 08:45	EJQ	TAL SL
Total/NA	Analysis	9320		1			468443	04/21/20 13:00	CJQ	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			469156	04/29/20 10:14	SMP	TAL SL
Instrument ID: NOEQUIP										

**Laboratory References:**

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

**Analyst References:**

Lab: TAL SL

Batch Type: Prep

EJQ = Erin Quinn

MNH = Molly Howard

RBR = Rachael Ratcliff

Batch Type: Analysis

AJD = Audra DeMariano

CJQ = Caleb Quinn

KLS = Kody Saulters

KRR = Kellene Robbs

SMP = Siobhan Perry

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWA-5**

**Lab Sample ID: 180-103766-1**

Date Collected: 03/17/20 14:25

Matrix: Water

Date Received: 03/19/20 08:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0438	U	0.0740	0.0741	1.00	0.130	pCi/L	03/24/20 13:03	04/15/20 05:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					03/24/20 13:03	04/15/20 05:17	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.240	U	0.327	0.328	1.00	0.623	pCi/L	04/19/20 12:26	04/22/20 16:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		40 - 110					04/19/20 12:26	04/22/20 16:36	1
Y Carrier	89.0		40 - 110					04/19/20 12:26	04/22/20 16:36	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.196	U	0.335	0.336	5.00	0.623	pCi/L		04/23/20 08:09	1

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-103766-2**

Date Collected: 03/17/20 15:38

Matrix: Water

Date Received: 03/19/20 08:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00193	U	0.0729	0.0729	1.00	0.150	pCi/L	03/24/20 13:03	04/15/20 05:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					03/24/20 13:03	04/15/20 05:17	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0409	U	0.359	0.359	1.00	0.643	pCi/L	04/19/20 12:26	04/22/20 16:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					04/19/20 12:26	04/22/20 16:36	1
Y Carrier	91.6		40 - 110					04/19/20 12:26	04/22/20 16:36	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: SGWA-3

Date Collected: 03/17/20 15:38

Date Received: 03/19/20 08:30

## Lab Sample ID: 180-103766-2

Matrix: Water

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0428	U	0.366	0.366	5.00	0.643	pCi/L		04/23/20 08:09	1

## Client Sample ID: SGWA-2

Date Collected: 03/17/20 14:30

Date Received: 03/19/20 08:30

## Lab Sample ID: 180-103766-3

Matrix: Water

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0338	U	0.0899	0.0899	1.00	0.164	pCi/L	03/24/20 13:03	04/15/20 05:18	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	86.5		40 - 110					03/24/20 13:03	04/15/20 05:18	1

### Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.548	U	0.427	0.430	1.00	0.678	pCi/L	04/19/20 12:26	04/22/20 16:36	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	88.1		40 - 110					04/19/20 12:26	04/22/20 16:36	1
Y Carrier	87.9		40 - 110					04/19/20 12:26	04/22/20 16:36	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.582	U	0.436	0.439	5.00	0.678	pCi/L		04/23/20 08:09	1

## Client Sample ID: SGWA-25

Date Collected: 03/17/20 15:45

Date Received: 03/19/20 08:30

## Lab Sample ID: 180-103766-4

Matrix: Water

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0268	U	0.0754	0.0754	1.00	0.179	pCi/L	03/24/20 13:03	04/15/20 05:18	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	58.5		40 - 110					03/24/20 13:03	04/15/20 05:18	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWA-25**

**Lab Sample ID: 180-103766-4**

Date Collected: 03/17/20 15:45

Matrix: Water

Date Received: 03/19/20 08:30

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.463	U	0.392	0.395	1.00	0.627	pCi/L	04/19/20 12:26	04/22/20 16:36	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	88.4		40 - 110					04/19/20 12:26	04/22/20 16:36	1
Y Carrier	87.5		40 - 110					04/19/20 12:26	04/22/20 16:36	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.436	U	0.399	0.402	5.00	0.627	pCi/L		04/23/20 08:09	1

**Client Sample ID: FB-1(AP)**

**Lab Sample ID: 180-103766-5**

Date Collected: 03/17/20 00:00

Matrix: Water

Date Received: 03/19/20 08:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.132		0.0875	0.0883	1.00	0.116	pCi/L	03/24/20 13:03	04/15/20 05:18	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.7		40 - 110					03/24/20 13:03	04/15/20 05:18	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.110	U	0.323	0.323	1.00	0.559	pCi/L	04/19/20 12:26	04/22/20 16:36	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	91.5		40 - 110					04/19/20 12:26	04/22/20 16:36	1
Y Carrier	91.2		40 - 110					04/19/20 12:26	04/22/20 16:36	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.242	U	0.335	0.335	5.00	0.559	pCi/L		04/23/20 08:09	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWA-1**

**Lab Sample ID: 180-103814-1**

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00285	U	0.108	0.108	1.00	0.221	pCi/L	03/25/20 12:24	04/16/20 04:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		40 - 110					03/25/20 12:24	04/16/20 04:53	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.213	U	0.292	0.293	1.00	0.487	pCi/L	03/25/20 12:53	04/14/20 13:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		40 - 110					03/25/20 12:53	04/14/20 13:42	1
Y Carrier	80.4		40 - 110					03/25/20 12:53	04/14/20 13:42	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.210	U	0.311	0.312	5.00	0.487	pCi/L		04/16/20 10:11	1

**Client Sample ID: SGWA-4**

**Lab Sample ID: 180-103814-2**

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0343	U	0.108	0.109	1.00	0.233	pCi/L	03/25/20 12:24	04/16/20 04:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					03/25/20 12:24	04/16/20 04:53	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.263	0.264	1.00	0.428	pCi/L	03/25/20 12:53	04/14/20 13:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					03/25/20 12:53	04/14/20 13:42	1
Y Carrier	74.0		40 - 110					03/25/20 12:53	04/14/20 13:42	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: SGWA-4

Date Collected: 03/18/20 14:50

Date Received: 03/20/20 09:00

## Lab Sample ID: 180-103814-2

Matrix: Water

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.226	U	0.284	0.286	5.00	0.428	pCi/L		04/16/20 10:11	1

## Client Sample ID: SGWA-24

Date Collected: 03/18/20 13:22

Date Received: 03/20/20 09:00

## Lab Sample ID: 180-103814-3

Matrix: Water

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0825	U	0.108	0.108	1.00	0.179	pCi/L	03/25/20 12:24	04/16/20 04:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					03/25/20 12:24	04/16/20 04:53	1

### Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.453		0.289	0.292	1.00	0.441	pCi/L	03/25/20 12:53	04/14/20 13:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					03/25/20 12:53	04/14/20 13:42	1
Y Carrier	74.8		40 - 110					03/25/20 12:53	04/14/20 13:42	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.536		0.309	0.311	5.00	0.441	pCi/L		04/16/20 10:11	1

## Client Sample ID: SGWC-19

Date Collected: 03/23/20 17:45

Date Received: 03/25/20 09:30

## Lab Sample ID: 180-103979-1

Matrix: Water

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0240	U	0.0644	0.0645	1.00	0.120	pCi/L	03/30/20 18:25	04/23/20 04:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					03/30/20 18:25	04/23/20 04:42	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-19**

**Lab Sample ID: 180-103979-1**

Date Collected: 03/23/20 17:45

Matrix: Water

Date Received: 03/25/20 09:30

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.147	U *	0.239	0.239	1.00	0.403	pCi/L	03/30/20 18:49	04/17/20 11:57	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	93.0		40 - 110					03/30/20 18:49	04/17/20 11:57	1
Y Carrier	80.7		40 - 110					03/30/20 18:49	04/17/20 11:57	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.171	U	0.248	0.248	5.00	0.403	pCi/L		04/27/20 13:10	1

**Client Sample ID: SGWC-20**

**Lab Sample ID: 180-103979-2**

Date Collected: 03/23/20 16:35

Matrix: Water

Date Received: 03/25/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0605	U	0.0822	0.0823	1.00	0.138	pCi/L	03/30/20 18:25	04/23/20 04:42	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	87.2		40 - 110					03/30/20 18:25	04/23/20 04:42	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.198	U *	0.286	0.287	1.00	0.479	pCi/L	03/30/20 18:49	04/17/20 11:57	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	87.2		40 - 110					03/30/20 18:49	04/17/20 11:57	1
Y Carrier	79.3		40 - 110					03/30/20 18:49	04/17/20 11:57	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.258	U	0.298	0.299	5.00	0.479	pCi/L		04/27/20 13:10	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-21**

**Lab Sample ID: 180-103979-3**

Date Collected: 03/23/20 16:33

Matrix: Water

Date Received: 03/25/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00424	U	0.0733	0.0733	1.00	0.144	pCi/L	03/30/20 18:25	04/23/20 04:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					03/30/20 18:25	04/23/20 04:42	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.380	*	0.242	0.245	1.00	0.370	pCi/L	03/30/20 18:49	04/17/20 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					03/30/20 18:49	04/17/20 11:57	1
Y Carrier	82.2		40 - 110					03/30/20 18:49	04/17/20 11:57	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.384		0.253	0.256	5.00	0.370	pCi/L		04/27/20 13:10	1

**Client Sample ID: EB-2(AP)**

**Lab Sample ID: 180-103979-4**

Date Collected: 03/23/20 18:00

Matrix: Water

Date Received: 03/25/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0769	U	0.0729	0.0732	1.00	0.111	pCi/L	03/30/20 18:25	04/23/20 04:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					03/30/20 18:25	04/23/20 04:42	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.412	*	0.262	0.265	1.00	0.400	pCi/L	03/30/20 18:49	04/17/20 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					03/30/20 18:49	04/17/20 11:57	1
Y Carrier	78.9		40 - 110					03/30/20 18:49	04/17/20 11:57	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: EB-2(AP)

Date Collected: 03/23/20 18:00

Date Received: 03/25/20 09:30

## Lab Sample ID: 180-103979-4

Matrix: Water

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.488		0.272	0.275	5.00	0.400	pCi/L		04/27/20 13:10	1

## Client Sample ID: FD-2(AP)

Date Collected: 03/23/20 00:00

Date Received: 03/25/20 09:30

## Lab Sample ID: 180-103979-5

Matrix: Water

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0797	U	0.0770	0.0774	1.00	0.118	pCi/L	03/30/20 18:25	04/23/20 04:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/30/20 18:25	04/23/20 04:42	1

### Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.231	U *	0.260	0.261	1.00	0.427	pCi/L	03/30/20 18:49	04/17/20 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/30/20 18:49	04/17/20 11:58	1
Y Carrier	80.7		40 - 110					03/30/20 18:49	04/17/20 11:58	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.311	U	0.271	0.272	5.00	0.427	pCi/L		04/27/20 13:10	1

## Client Sample ID: SGWC-17

Date Collected: 03/24/20 12:02

Date Received: 03/26/20 09:00

## Lab Sample ID: 180-104016-1

Matrix: Water

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0480	U	0.0649	0.0650	1.00	0.109	pCi/L	03/30/20 18:25	04/23/20 04:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					03/30/20 18:25	04/23/20 04:42	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-17**

**Lab Sample ID: 180-104016-1**

Date Collected: 03/24/20 12:02

Matrix: Water

Date Received: 03/26/20 09:00

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.378	U *	0.261	0.263	1.00	0.406	pCi/L	03/30/20 18:49	04/17/20 11:58	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	91.7		40 - 110					03/30/20 18:49	04/17/20 11:58	1
Y Carrier	81.5		40 - 110					03/30/20 18:49	04/17/20 11:58	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.426		0.269	0.271	5.00	0.406	pCi/L		04/27/20 13:10	1

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-104016-2**

Date Collected: 03/24/20 10:05

Matrix: Water

Date Received: 03/26/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.304		0.130	0.133	1.00	0.153	pCi/L	03/30/20 18:25	04/23/20 04:43	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.0		40 - 110					03/30/20 18:25	04/23/20 04:43	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.120	U *	0.210	0.210	1.00	0.399	pCi/L	03/30/20 18:49	04/17/20 11:58	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.0		40 - 110					03/30/20 18:49	04/17/20 11:58	1
Y Carrier	82.6		40 - 110					03/30/20 18:49	04/17/20 11:58	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.183	U	0.247	0.249	5.00	0.399	pCi/L		04/27/20 13:10	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-22**

**Lab Sample ID: 180-104016-3**

Date Collected: 03/24/20 08:48

Matrix: Water

Date Received: 03/26/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0747	U	0.0717	0.0721	1.00	0.110	pCi/L	03/30/20 18:25	04/23/20 04:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					03/30/20 18:25	04/23/20 04:43	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.113	U *	0.238	0.238	1.00	0.406	pCi/L	03/30/20 18:49	04/17/20 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					03/30/20 18:49	04/17/20 11:58	1
Y Carrier	80.7		40 - 110					03/30/20 18:49	04/17/20 11:58	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.188	U	0.249	0.249	5.00	0.406	pCi/L		04/27/20 13:10	1

**Client Sample ID: FB-2(AP)**

**Lab Sample ID: 180-104016-4**

Date Collected: 03/24/20 08:30

Matrix: Water

Date Received: 03/26/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0131	U	0.0766	0.0766	1.00	0.159	pCi/L	03/30/20 18:25	04/23/20 04:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					03/30/20 18:25	04/23/20 04:43	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0143	U *	0.227	0.227	1.00	0.408	pCi/L	03/30/20 18:49	04/17/20 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					03/30/20 18:49	04/17/20 11:58	1
Y Carrier	79.6		40 - 110					03/30/20 18:49	04/17/20 11:58	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: FB-2(AP)

Date Collected: 03/24/20 08:30

Date Received: 03/26/20 09:00

## Lab Sample ID: 180-104016-4

Matrix: Water

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00116	U	0.240	0.240	5.00	0.408	pCi/L		04/27/20 13:10	1

## Client Sample ID: SGWC-6

Date Collected: 03/25/20 11:29

Date Received: 03/27/20 09:00

## Lab Sample ID: 180-104069-1

Matrix: Water

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0494	U	0.0745	0.0747	1.00	0.128	pCi/L	04/03/20 08:51	04/27/20 05:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.1		40 - 110					04/03/20 08:51	04/27/20 05:31	1

### Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.362	U	0.355	0.356	1.00	0.575	pCi/L	04/03/20 09:16	04/20/20 13:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.1		40 - 110					04/03/20 09:16	04/20/20 13:53	1
Y Carrier	77.0		40 - 110					04/03/20 09:16	04/20/20 13:53	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.411	U	0.363	0.364	5.00	0.575	pCi/L		04/27/20 10:24	1

## Client Sample ID: SGWC-8

Date Collected: 03/25/20 09:15

Date Received: 03/27/20 09:00

## Lab Sample ID: 180-104069-2

Matrix: Water

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.551		0.144	0.152	1.00	0.118	pCi/L	04/03/20 08:51	04/27/20 05:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					04/03/20 08:51	04/27/20 05:31	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-8**

**Lab Sample ID: 180-104069-2**

Date Collected: 03/25/20 09:15

Matrix: Water

Date Received: 03/27/20 09:00

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.44		0.466	0.517	1.00	0.535	pCi/L	04/03/20 09:16	04/20/20 13:54	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.9		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	75.5		40 - 110					04/03/20 09:16	04/20/20 13:54	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.99		0.488	0.539	5.00	0.535	pCi/L		04/27/20 10:24	1

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-104069-3**

Date Collected: 03/25/20 09:18

Matrix: Water

Date Received: 03/27/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.135		0.0869	0.0878	1.00	0.117	pCi/L	04/03/20 08:51	04/27/20 05:31	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	89.6		40 - 110					04/03/20 08:51	04/27/20 05:31	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0703	U	0.268	0.268	1.00	0.468	pCi/L	04/03/20 09:16	04/20/20 13:54	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	89.6		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	83.7		40 - 110					04/03/20 09:16	04/20/20 13:54	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.206	U	0.282	0.282	5.00	0.468	pCi/L		04/27/20 10:24	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-104069-4**

Date Collected: 03/25/20 11:03

Matrix: Water

Date Received: 03/27/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00150	U	0.0629	0.0629	1.00	0.125	pCi/L	04/03/20 08:51	04/27/20 05:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					04/03/20 08:51	04/27/20 05:31	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U	0.271	0.272	1.00	0.444	pCi/L	04/03/20 09:16	04/20/20 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	82.2		40 - 110					04/03/20 09:16	04/20/20 13:54	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.253	U	0.278	0.279	5.00	0.444	pCi/L		04/27/20 10:24	1

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-104069-5**

Date Collected: 03/25/20 11:56

Matrix: Water

Date Received: 03/27/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0479	U	0.0719	0.0720	1.00	0.123	pCi/L	04/03/20 08:51	04/27/20 05:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					04/03/20 08:51	04/27/20 05:31	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.156	U	0.264	0.264	1.00	0.447	pCi/L	04/03/20 09:16	04/20/20 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	79.6		40 - 110					04/03/20 09:16	04/20/20 13:54	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-104069-5**

Date Collected: 03/25/20 11:56

Matrix: Water

Date Received: 03/27/20 09:00

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.204	U	0.274	0.274	5.00	0.447	pCi/L		04/27/20 10:24	1

**Client Sample ID: EB-3(AP)**

**Lab Sample ID: 180-104069-6**

Date Collected: 03/25/20 11:40

Matrix: Water

Date Received: 03/27/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0439	U	0.0740	0.0741	1.00	0.129	pCi/L	04/03/20 08:51	04/27/20 05:31	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	96.9		40 - 110					04/03/20 08:51	04/27/20 05:31	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0935	U	0.235	0.236	1.00	0.439	pCi/L	04/03/20 09:16	04/20/20 13:54	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	96.9		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	82.2		40 - 110					04/03/20 09:16	04/20/20 13:54	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0496	U	0.246	0.247	5.00	0.439	pCi/L		04/27/20 10:24	1

**Client Sample ID: FD-3(AP)**

**Lab Sample ID: 180-104069-7**

Date Collected: 03/25/20 00:00

Matrix: Water

Date Received: 03/27/20 09:00

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102	U	0.108	0.108	1.00	0.172	pCi/L	04/03/20 08:51	04/27/20 05:31	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	69.4		40 - 110					04/03/20 08:51	04/27/20 05:31	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: FD-3(AP)**

**Lab Sample ID: 180-104069-7**

Date Collected: 03/25/20 00:00

Matrix: Water

Date Received: 03/27/20 09:00

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.122	U	0.329	0.330	1.00	0.570	pCi/L	04/03/20 09:16	04/20/20 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.4		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	84.5		40 - 110					04/03/20 09:16	04/20/20 13:54	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.224	U	0.346	0.347	5.00	0.570	pCi/L		04/27/20 10:24	1

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-104107-1**

Date Collected: 03/27/20 09:16

Matrix: Water

Date Received: 03/28/20 10:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0444	U	0.0683	0.0685	1.00	0.118	pCi/L	04/03/20 08:51	04/27/20 07:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					04/03/20 08:51	04/27/20 07:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.190	U	0.244	0.245	1.00	0.405	pCi/L	04/03/20 09:16	04/20/20 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	83.7		40 - 110					04/03/20 09:16	04/20/20 13:54	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.235	U	0.253	0.254	5.00	0.405	pCi/L		04/27/20 10:24	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-14**

**Lab Sample ID: 180-104107-2**

Date Collected: 03/27/20 10:04

Matrix: Water

Date Received: 03/28/20 10:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0200	U	0.0607	0.0607	1.00	0.138	pCi/L	04/03/20 08:51	04/27/20 07:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		40 - 110					04/03/20 08:51	04/27/20 07:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.226	U	0.298	0.299	1.00	0.497	pCi/L	04/03/20 09:16	04/20/20 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	83.4		40 - 110					04/03/20 09:16	04/20/20 13:54	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.206	U	0.304	0.305	5.00	0.497	pCi/L		04/27/20 10:24	1

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-104107-3**

Date Collected: 03/27/20 08:46

Matrix: Water

Date Received: 03/28/20 10:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0273	U	0.0688	0.0689	1.00	0.126	pCi/L	04/03/20 08:51	04/27/20 07:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					04/03/20 08:51	04/27/20 07:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.363	U	0.272	0.274	1.00	0.428	pCi/L	04/03/20 09:16	04/20/20 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	84.1		40 - 110					04/03/20 09:16	04/20/20 13:54	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Client Sample ID: SGWC-15

## Lab Sample ID: 180-104107-3

Date Collected: 03/27/20 08:46

Matrix: Water

Date Received: 03/28/20 10:30

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.390	U	0.281	0.283	5.00	0.428	pCi/L		04/27/20 10:24	1

## Client Sample ID: SGWC-16

## Lab Sample ID: 180-104107-4

Date Collected: 03/27/20 10:09

Matrix: Water

Date Received: 03/28/20 10:30

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0842	U	0.0848	0.0851	1.00	0.134	pCi/L	04/03/20 08:51	04/27/20 07:47	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	84.7		40 - 110					04/03/20 08:51	04/27/20 07:47	1

### Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.261	0.262	1.00	0.431	pCi/L	04/03/20 09:16	04/20/20 13:54	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	84.7		40 - 110					04/03/20 09:16	04/20/20 13:54	1
Y Carrier	83.0		40 - 110					04/03/20 09:16	04/20/20 13:54	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.305	U	0.274	0.275	5.00	0.431	pCi/L		04/27/20 10:24	1

## Client Sample ID: SGWC-7

## Lab Sample ID: 180-104108-1

Date Collected: 03/26/20 16:34

Matrix: Water

Date Received: 03/28/20 10:30

### Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0240	U	0.0644	0.0644	1.00	0.120	pCi/L	04/06/20 08:26	04/29/20 05:01	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	82.6		40 - 110					04/06/20 08:26	04/29/20 05:01	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-7**

**Lab Sample ID: 180-104108-1**

Date Collected: 03/26/20 16:34

Matrix: Water

Date Received: 03/28/20 10:30

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.127	U	0.311	0.311	1.00	0.533	pCi/L	04/06/20 08:45	04/21/20 12:59	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	82.6		40 - 110					04/06/20 08:45	04/21/20 12:59	1
Y Carrier	81.9		40 - 110					04/06/20 08:45	04/21/20 12:59	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.151	U	0.318	0.318	5.00	0.533	pCi/L		04/29/20 10:14	1

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-104108-2**

Date Collected: 03/26/20 16:00

Matrix: Water

Date Received: 03/28/20 10:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0722	U	0.0831	0.0834	1.00	0.135	pCi/L	04/06/20 08:26	04/29/20 05:01	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	81.7		40 - 110					04/06/20 08:26	04/29/20 05:01	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.532		0.302	0.306	1.00	0.452	pCi/L	04/06/20 08:45	04/21/20 12:59	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	81.7		40 - 110					04/06/20 08:45	04/21/20 12:59	1
Y Carrier	81.5		40 - 110					04/06/20 08:45	04/21/20 12:59	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.604		0.313	0.317	5.00	0.452	pCi/L		04/29/20 10:14	1

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: SGWC-18**

**Lab Sample ID: 180-104108-3**

Date Collected: 03/26/20 16:38

Matrix: Water

Date Received: 03/28/20 10:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0203	U	0.0641	0.0641	1.00	0.138	pCi/L	04/06/20 08:26	04/29/20 05:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					04/06/20 08:26	04/29/20 05:01	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.386	U	0.296	0.298	1.00	0.466	pCi/L	04/06/20 08:45	04/21/20 12:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					04/06/20 08:45	04/21/20 12:59	1
Y Carrier	80.4		40 - 110					04/06/20 08:45	04/21/20 12:59	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.366	U	0.303	0.305	5.00	0.466	pCi/L		04/29/20 10:14	1

**Client Sample ID: FB-3 (AP)**

**Lab Sample ID: 180-104108-4**

Date Collected: 03/26/20 17:00

Matrix: Water

Date Received: 03/28/20 10:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00919	U	0.0467	0.0467	1.00	0.107	pCi/L	04/06/20 08:26	04/29/20 05:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					04/06/20 08:26	04/29/20 05:02	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.338	U	0.297	0.298	1.00	0.476	pCi/L	04/06/20 08:45	04/21/20 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					04/06/20 08:45	04/21/20 13:00	1
Y Carrier	83.7		40 - 110					04/06/20 08:45	04/21/20 13:00	1

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# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

**Client Sample ID: FB-3 (AP)**

**Lab Sample ID: 180-104108-4**

Date Collected: 03/26/20 17:00

Matrix: Water

Date Received: 03/28/20 10:30

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.329	U	0.301	0.302	5.00	0.476	pCi/L		04/29/20 10:14	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-465458/22-A**  
**Matrix: Water**  
**Analysis Batch: 467823**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 465458**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02844	U	0.0416	0.0417	1.00	0.112	pCi/L	03/24/20 13:03	04/15/20 07:24	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					03/24/20 13:03	04/15/20 07:24	1
	98.4									

**Lab Sample ID: LCS 160-465458/1-A**  
**Matrix: Water**  
**Analysis Batch: 467823**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 465458**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.112		1.02	1.00	0.147	pCi/L	80	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	86.5		40 - 110						

**Lab Sample ID: 180-103766-3 DU**  
**Matrix: Water**  
**Analysis Batch: 467823**

**Client Sample ID: SGWA-2**  
**Prep Type: Total/NA**  
**Prep Batch: 465458**

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0338	U	0.01969	U	0.0682	1.00	0.133	pCi/L	0.09	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	80.5		40 - 110							

**Lab Sample ID: MB 160-465545/23-A**  
**Matrix: Water**  
**Analysis Batch: 467927**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 465545**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01663	U	0.0885	0.0885	1.00	0.176	pCi/L	03/25/20 12:24	04/16/20 06:44	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					03/25/20 12:24	04/16/20 06:44	1
	95.7									

**Lab Sample ID: LCS 160-465545/1-A**  
**Matrix: Water**  
**Analysis Batch: 467927**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 465545**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.183		1.09	1.00	0.205	pCi/L	81	75 - 125

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9315 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-465545/1-A**  
**Matrix: Water**  
**Analysis Batch: 467927**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 465545**

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.7		40 - 110

**Lab Sample ID: LCSD 160-465545/2-A**  
**Matrix: Water**  
**Analysis Batch: 467927**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 465545**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.3	9.005		1.07	1.00	0.197	pCi/L	79	75 - 125	0.08	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	94.5		40 - 110

**Lab Sample ID: MB 160-466131/23-A**  
**Matrix: Water**  
**Analysis Batch: 468674**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 466131**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03218	U	0.0623	0.0624	1.00	0.113	pCi/L	03/30/20 18:25	04/23/20 06:33	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		40 - 110	03/30/20 18:25	04/23/20 06:33	1

**Lab Sample ID: LCS 160-466131/1-A**  
**Matrix: Water**  
**Analysis Batch: 468674**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 466131**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.3	8.952		1.12	1.00	0.251	pCi/L	79	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	58.7		40 - 110

**Lab Sample ID: 240-128229-A-4-A MS**  
**Matrix: Water**  
**Analysis Batch: 468674**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 466131**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	0.111	U	11.3	11.05		1.18	1.00	0.146	pCi/L	96	75 - 138

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	89.0		40 - 110

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9315 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: 240-128229-L-4-A MSD**  
**Matrix: Water**  
**Analysis Batch: 468674**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 466131**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.		RER	Limit
	Result	Qual		Result	Qual						Limits	RER		
Radium-226	0.111	U	11.4	10.66		1.14	1.00	0.144	pCi/L	93	75 - 138	0.17	1	
<b>Carrier</b>		<b>MSD</b>	<b>MSD</b>	<b>Qualifiers</b>		<b>Limits</b>								
<i>Ba Carrier</i>		<i>91.4</i>	<i></i>	<i></i>		<i>40 - 110</i>								

**Lab Sample ID: MB 160-466598/21-A**  
**Matrix: Water**  
**Analysis Batch: 468971**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 466598**

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac				
	Result	Qualifier												
Radium-226	-0.005051	U	0.0849	0.0849	1.00	0.172	pCi/L	04/03/20 08:51	04/27/20 07:47	1				
<b>Carrier</b>		<b>MB</b>	<b>MB</b>	<b>Qualifiers</b>		<b>Limits</b>		<b>Prepared</b>			<b>Analyzed</b>		<b>Dil Fac</b>	
<i>Ba Carrier</i>		<i>69.1</i>	<i></i>	<i></i>		<i>40 - 110</i>		<i>04/03/20 08:51</i>			<i>04/27/20 07:47</i>		<i>1</i>	

**Lab Sample ID: LCS 160-466598/1-A**  
**Matrix: Water**  
**Analysis Batch: 468971**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 466598**

Analyte	Spike Added	LCS	LCS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.		
		Result	Qual						Limits	RER	
Radium-226	11.3	8.855		0.985	1.00	0.141	pCi/L	78	75 - 125		
<b>Carrier</b>		<b>LCS</b>	<b>LCS</b>	<b>Qualifiers</b>		<b>Limits</b>					
<i>Ba Carrier</i>		<i>76.8</i>	<i></i>	<i></i>		<i>40 - 110</i>					

**Lab Sample ID: 400-186042-A-47-B MS**  
**Matrix: Water**  
**Analysis Batch: 468971**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 466598**

Analyte	Sample	Sample	Spike Added	MS	MS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	
	Result	Qual		Result	Qual						Limits	RER
Radium-226	0.111	U	15.1	11.93		1.28	1.00	0.171	pCi/L	78	75 - 138	
<b>Carrier</b>		<b>MS</b>	<b>MS</b>	<b>Qualifiers</b>		<b>Limits</b>						
<i>Ba Carrier</i>		<i>98.2</i>	<i></i>	<i></i>		<i>40 - 110</i>						

**Lab Sample ID: 400-186042-A-47-C MSD**  
**Matrix: Water**  
**Analysis Batch: 468971**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 466598**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.		RER	Limit
	Result	Qual		Result	Qual						Limits	RER		
Radium-226	0.111	U	15.1	12.56		1.36	1.00	0.143	pCi/L	82	75 - 138	0.24	1	

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 400-186042-A-47-C MSD  
Matrix: Water  
Analysis Batch: 468971

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 466598

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	87.5		40 - 110

Lab Sample ID: MB 160-466707/23-A  
Matrix: Water  
Analysis Batch: 469145

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 466707

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04171	U	0.0539	0.0541	1.00	0.129	pCi/L	04/06/20 08:26	04/29/20 06:55	1
Carrier	MB %Yield	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	91.7		40 - 110			04/06/20 08:26	04/29/20 06:55	1		

Lab Sample ID: LCS 160-466707/1-A  
Matrix: Water  
Analysis Batch: 469145

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 466707

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.373		1.02	1.00	0.118	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	78.3		40 - 110						

Lab Sample ID: 180-104108-2 DU  
Matrix: Water  
Analysis Batch: 469145

Client Sample ID: SGWC-12  
Prep Type: Total/NA  
Prep Batch: 466707

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0722	U	0.01569	U	0.0704	1.00	0.135	pCi/L	0.37	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	79.2		40 - 110							

## Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-465549/23-A  
Matrix: Water  
Analysis Batch: 467710

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 465549

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2261	U	0.288	0.288	1.00	0.477	pCi/L	03/25/20 12:53	04/14/20 13:40	1
Carrier	MB %Yield	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	95.7		40 - 110			03/25/20 12:53	04/14/20 13:40	1		

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: MB 160-465549/23-A**  
**Matrix: Water**  
**Analysis Batch: 467710**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 465549**

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	82.2		40 - 110	03/25/20 12:53	04/14/20 13:40	1

**Lab Sample ID: LCS 160-465549/1-A**  
**Matrix: Water**  
**Analysis Batch: 467676**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 465549**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.93	8.213		1.02	1.00	0.475	pCi/L	92	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.7		40 - 110
Y Carrier	77.0		40 - 110

**Lab Sample ID: LCSD 160-465549/2-A**  
**Matrix: Water**  
**Analysis Batch: 467676**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 465549**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	8.93	8.041		0.996	1.00	0.435	pCi/L	90	75 - 125	0.09	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	94.5		40 - 110
Y Carrier	79.3		40 - 110

**Lab Sample ID: MB 160-466133/23-A**  
**Matrix: Water**  
**Analysis Batch: 468030**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 466133**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.01199	U	0.254	0.254	1.00	0.455	pCi/L	03/30/20 18:49	04/17/20 11:54	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		40 - 110	03/30/20 18:49	04/17/20 11:54	1
Y Carrier	82.2		40 - 110	03/30/20 18:49	04/17/20 11:54	1

**Lab Sample ID: LCS 160-466133/1-A**  
**Matrix: Water**  
**Analysis Batch: 468012**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 466133**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.92	11.69	*	1.46	1.00	0.695	pCi/L	131	75 - 125

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-466133/1-A**  
**Matrix: Water**  
**Analysis Batch: 468012**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 466133**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	58.7		40 - 110
Y Carrier	79.6		40 - 110

**Lab Sample ID: 240-128229-A-4-B MS**  
**Matrix: Water**  
**Analysis Batch: 468012**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 466133**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.00484	U *	8.92	7.811		0.968	1.00	0.443	pCi/L	88	45 - 150

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	89.0		40 - 110
Y Carrier	82.2		40 - 110

**Lab Sample ID: 240-128229-L-4-B MSD**  
**Matrix: Water**  
**Analysis Batch: 468030**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 466133**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.00484	U *	8.93	9.277		1.10	1.00	0.434	pCi/L	104	45 - 150	0.71	1

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	91.4		40 - 110
Y Carrier	81.9		40 - 110

**Lab Sample ID: MB 160-466601/21-A**  
**Matrix: Water**  
**Analysis Batch: 468147**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 466601**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5224	U	0.361	0.365	1.00	0.558	pCi/L	04/03/20 09:16	04/20/20 13:54	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110	04/03/20 09:16	04/20/20 13:54	1
Y Carrier	78.5		40 - 110	04/03/20 09:16	04/20/20 13:54	1

**Lab Sample ID: LCS 160-466601/1-A**  
**Matrix: Water**  
**Analysis Batch: 468147**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 466601**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.91	9.048		1.27	1.00	0.698	pCi/L	102	75 - 125

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-466601/1-A**  
**Matrix: Water**  
**Analysis Batch: 468147**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 466601**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	76.8		40 - 110
Y Carrier	56.8		40 - 110

**Lab Sample ID: 400-186042-A-47-E MS**  
**Matrix: Water**  
**Analysis Batch: 468147**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 466601**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.737		11.9	11.96		1.43	1.00	0.509	pCi/L	94	45 - 150

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.2		40 - 110
Y Carrier	79.6		40 - 110

**Lab Sample ID: 400-186042-A-47-F MSD**  
**Matrix: Water**  
**Analysis Batch: 468147**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 466601**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.737		11.9	12.72		1.54	1.00	0.545	pCi/L	101	45 - 150	0.26	1

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.5		40 - 110
Y Carrier	81.1		40 - 110

**Lab Sample ID: MB 160-466715/23-A**  
**Matrix: Water**  
**Analysis Batch: 468448**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 466715**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.03851	U	0.292	0.292	1.00	0.524	pCi/L	04/06/20 08:45	04/21/20 12:57	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110	04/06/20 08:45	04/21/20 12:57	1
Y Carrier	80.4		40 - 110	04/06/20 08:45	04/21/20 12:57	1

**Lab Sample ID: LCS 160-466715/1-A**  
**Matrix: Water**  
**Analysis Batch: 468443**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 466715**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.91	9.337		1.17	1.00	0.565	pCi/L	105	75 - 125

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-466715/1-A**  
**Matrix: Water**  
**Analysis Batch: 468443**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 466715**

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	78.3		40 - 110
Y Carrier	80.0		40 - 110

**Lab Sample ID: 180-104108-2 DU**  
**Matrix: Water**  
**Analysis Batch: 468443**

**Client Sample ID: SGWC-12**  
**Prep Type: Total/NA**  
**Prep Batch: 466715**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	0.532		0.7717		0.344	1.00	0.476	pCi/L	0.37	1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	79.2		40 - 110
Y Carrier	81.9		40 - 110

**Lab Sample ID: MB 160-468060/20-A**  
**Matrix: Water**  
**Analysis Batch: 468601**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 468060**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.01509	U	0.324	0.324	1.00	0.576	pCi/L	04/19/20 12:26	04/22/20 16:36	1

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	94.2		40 - 110	04/19/20 12:26	04/22/20 16:36	1
Y Carrier	89.3		40 - 110	04/19/20 12:26	04/22/20 16:36	1

**Lab Sample ID: LCS 160-468060/1-A**  
**Matrix: Water**  
**Analysis Batch: 468602**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 468060**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.
									Limits
Radium-228	11.9	11.88		1.56	1.00	0.792	pCi/L	100	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	79.9		40 - 110
Y Carrier	69.2		40 - 110

**Lab Sample ID: LCSD 160-468060/2-A**  
**Matrix: Water**  
**Analysis Batch: 468602**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 468060**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	RER
									Limits	Limit
Radium-228	11.9	11.96		1.45	1.00	0.590	pCi/L	101	75 - 125	0.03

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-468060/2-A  
Matrix: Water  
Analysis Batch: 468602

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 468060

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	81.7		40 - 110
Y Carrier	91.2		40 - 110

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Rad

### Prep Batch: 465458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total/NA	Water	PrecSep-21	
180-103766-2	SGWA-3	Total/NA	Water	PrecSep-21	
180-103766-3	SGWA-2	Total/NA	Water	PrecSep-21	
180-103766-4	SGWA-25	Total/NA	Water	PrecSep-21	
180-103766-5	FB-1(AP)	Total/NA	Water	PrecSep-21	
MB 160-465458/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-465458/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-103766-3 DU	SGWA-2	Total/NA	Water	PrecSep-21	

### Prep Batch: 465545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-1	SGWA-1	Total/NA	Water	PrecSep-21	
180-103814-2	SGWA-4	Total/NA	Water	PrecSep-21	
180-103814-3	SGWA-24	Total/NA	Water	PrecSep-21	
MB 160-465545/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-465545/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-465545/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

### Prep Batch: 465549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103814-1	SGWA-1	Total/NA	Water	PrecSep_0	
180-103814-2	SGWA-4	Total/NA	Water	PrecSep_0	
180-103814-3	SGWA-24	Total/NA	Water	PrecSep_0	
MB 160-465549/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-465549/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-465549/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

### Prep Batch: 466131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total/NA	Water	PrecSep-21	
180-103979-2	SGWC-20	Total/NA	Water	PrecSep-21	
180-103979-3	SGWC-21	Total/NA	Water	PrecSep-21	
180-103979-4	EB-2(AP)	Total/NA	Water	PrecSep-21	
180-103979-5	FD-2(AP)	Total/NA	Water	PrecSep-21	
180-104016-1	SGWC-17	Total/NA	Water	PrecSep-21	
180-104016-2	SGWC-23	Total/NA	Water	PrecSep-21	
180-104016-3	SGWC-22	Total/NA	Water	PrecSep-21	
180-104016-4	FB-2(AP)	Total/NA	Water	PrecSep-21	
MB 160-466131/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-466131/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-128229-A-4-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
240-128229-L-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 466133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103979-1	SGWC-19	Total/NA	Water	PrecSep_0	
180-103979-2	SGWC-20	Total/NA	Water	PrecSep_0	
180-103979-3	SGWC-21	Total/NA	Water	PrecSep_0	
180-103979-4	EB-2(AP)	Total/NA	Water	PrecSep_0	
180-103979-5	FD-2(AP)	Total/NA	Water	PrecSep_0	
180-104016-1	SGWC-17	Total/NA	Water	PrecSep_0	

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Rad (Continued)

### Prep Batch: 466133 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104016-2	SGWC-23	Total/NA	Water	PrecSep_0	
180-104016-3	SGWC-22	Total/NA	Water	PrecSep_0	
180-104016-4	FB-2(AP)	Total/NA	Water	PrecSep_0	
MB 160-466133/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-466133/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-128229-A-4-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	
240-128229-L-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

### Prep Batch: 466598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104069-1	SGWC-6	Total/NA	Water	PrecSep-21	
180-104069-2	SGWC-8	Total/NA	Water	PrecSep-21	
180-104069-3	SGWC-9	Total/NA	Water	PrecSep-21	
180-104069-4	SGWC-10	Total/NA	Water	PrecSep-21	
180-104069-5	SGWC-11	Total/NA	Water	PrecSep-21	
180-104069-6	EB-3(AP)	Total/NA	Water	PrecSep-21	
180-104069-7	FD-3(AP)	Total/NA	Water	PrecSep-21	
180-104107-1	SGWC-13	Total/NA	Water	PrecSep-21	
180-104107-2	SGWC-14	Total/NA	Water	PrecSep-21	
180-104107-3	SGWC-15	Total/NA	Water	PrecSep-21	
180-104107-4	SGWC-16	Total/NA	Water	PrecSep-21	
MB 160-466598/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-466598/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-186042-A-47-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
400-186042-A-47-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 466601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104069-1	SGWC-6	Total/NA	Water	PrecSep_0	
180-104069-2	SGWC-8	Total/NA	Water	PrecSep_0	
180-104069-3	SGWC-9	Total/NA	Water	PrecSep_0	
180-104069-4	SGWC-10	Total/NA	Water	PrecSep_0	
180-104069-5	SGWC-11	Total/NA	Water	PrecSep_0	
180-104069-6	EB-3(AP)	Total/NA	Water	PrecSep_0	
180-104069-7	FD-3(AP)	Total/NA	Water	PrecSep_0	
180-104107-1	SGWC-13	Total/NA	Water	PrecSep_0	
180-104107-2	SGWC-14	Total/NA	Water	PrecSep_0	
180-104107-3	SGWC-15	Total/NA	Water	PrecSep_0	
180-104107-4	SGWC-16	Total/NA	Water	PrecSep_0	
MB 160-466601/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-466601/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-186042-A-47-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
400-186042-A-47-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

### Prep Batch: 466707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104108-1	SGWC-7	Total/NA	Water	PrecSep-21	
180-104108-2	SGWC-12	Total/NA	Water	PrecSep-21	
180-104108-3	SGWC-18	Total/NA	Water	PrecSep-21	
180-104108-4	FB-3 (AP)	Total/NA	Water	PrecSep-21	
MB 160-466707/23-A	Method Blank	Total/NA	Water	PrecSep-21	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-2

## Rad (Continued)

### Prep Batch: 466707 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-466707/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-104108-2 DU	SGWC-12	Total/NA	Water	PrecSep-21	

### Prep Batch: 466715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104108-1	SGWC-7	Total/NA	Water	PrecSep_0	
180-104108-2	SGWC-12	Total/NA	Water	PrecSep_0	
180-104108-3	SGWC-18	Total/NA	Water	PrecSep_0	
180-104108-4	FB-3 (AP)	Total/NA	Water	PrecSep_0	
MB 160-466715/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-466715/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-104108-2 DU	SGWC-12	Total/NA	Water	PrecSep_0	

### Prep Batch: 468060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103766-1	SGWA-5	Total/NA	Water	PrecSep_0	
180-103766-2	SGWA-3	Total/NA	Water	PrecSep_0	
180-103766-3	SGWA-2	Total/NA	Water	PrecSep_0	
180-103766-4	SGWA-25	Total/NA	Water	PrecSep_0	
180-103766-5	FB-1(AP)	Total/NA	Water	PrecSep_0	
MB 160-468060/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-468060/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-468060/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

TestAmerica Pittsburgh

361 Alpha Drive  
RDC Park  
Pittsburgh, PA 15206-2607  
Phone 412 963 7656 Fax 412 963 2469

Chain of Custody Record

601-Atlanta

TestAmerica

The Leaders in Environmental & Safety

TestAmerica Laboratories, Inc.

**Client Contact:** **Site Contact:** Chris Tolwell **Date:** 3/11/2020

**Project Manager:** Dawn Pined **Lab Contact:** Veronica Borjal **Case#: 1009**

**Regulatory Program:**  Air  Water  Soil  Other

**TestArea: 248-531-6448**

**Analysis Turnaround Time:**  Standard Rate  Expedited Rate

Full Offsets from Base  All Tests

2 Weeks  1 Week  3 Days  1 Day

**Project Name:** OCM - Plant Screen Air Pond

**Site:** Georgia

**PI #:** 18078894

**Method:**  8130  8140  8150  8160  8170  8180  8190  8200  8210  8220  8230  8240  8250  8260  8270  8280  8290  8300

**Sample Identification**

Sample ID	Sample Date	Sample Time	Sample Type (solid, liquid, gas)	Matrix	# of Containers
809A-1	3/11/2020	14:25	G	Water	4
809A-2	3/11/2020	15:38	G	Water	4
809A-3	3/11/2020	14:30	G	Water	4
809A-25	3/11/2020	15:45	G	Water	4
FB-1487	3/11/2020	-	G	Water	4

**Preservation Method:**  Ice  Ice/2  Ice/30°C  Ice/60°C  Ice/90°C  Other \_\_\_\_\_

**Special Instructions/OC Requirements & Comments:**

**Sample Disposal:**  A Fee may be assessed if samples are retained longer than 1 month.

Taken to Client  Released to Lab  Archived for Months

**Chain of Custody:**

Signature	Date	Role
<i>[Signature]</i>	3/11/2020	Client Representative
<i>[Signature]</i>	3/11/2020	Sample Collector
<i>[Signature]</i>	3/11/2020	Lab Receptionist
<i>[Signature]</i>	3/11/2020	Lab Analyst

**Transit:**  Cool Box  Other

**Cooler Temp. (°C):** Ambient

**Therm ID No.:** 2007168 2007169 2007170

**Form No. GA-C-06-003, Rev. 6.25, dated 2/26/2018**



TestAmerica Pittsburgh  
 301 Alpha Drive  
 RDC Park  
 Pittsburgh, PA 15204-2907  
 Phone: 412.953.7058 Fax: 412.953.2458

Atlanta

### Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact: **250 Abraham**      Regulatory Program:  Air  Sewer  Storm  Other  Other  
 Project Manager: **Devin Prall**      Date: **3/18/2020**  
 Tel/Fax: **248-538-5445**      Lab Contact: **Veronica Borstell**      Carrier:

Sample Identification	Sample Date	Sample Time	Sample Type (e.g., G, W, S)	Matrix	# of Containers	Analysis Turnaround Time				Sample Specific Notes
						1 week	2 days	5 days	7 days	
50788-1	3/18/2020	14:50	G	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	John 8:37
50788-4	3/18/2020	14:50	G	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	John 8:36
50788-24	3/18/2020	13:22	G	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	John 8:40
FD-1 (MS)	3/18/2020	--	G	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EB-1 (BP)	3/18/2020	18:00	G	Water	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	



Preservation Used:  Ice  Dry Ice  Vial Cool  4°C Cool  4°C Cool  Other  
 Possible Hazard Identification: \_\_\_\_\_  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Not Hazardous     Not Listed     Unknown  
 Special Instructions/OC Requirements & Comments:

Sample Disposed (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client     Discard in Lab     Destroy by \_\_\_\_\_  
 Chain of Custody Seal No.: \_\_\_\_\_  
 Custody Seal Intact:  Yes  No

Requested by: **Kevin Cook**      Date Time: **3/19/20 8:25**  
 Approved by: **Veronica Borstell**      Company: **Veronica Borstell**  
 Received by: **Kevin Cook**      Date Time: **3/19/20 8:25**  
 Approved by: **Veronica Borstell**      Company: **Veronica Borstell**  
 Form No. CA-C-002 Rev. 4.00 **9:00**



Client Contact: **Agri Abraham** Regulatory Program:  Air  Water  SO<sub>2</sub>  Other  
 Project Manager: **Deann Fyfe** Site Contact: **Chad Tidwell** Date: **3/23/20**  
 TAPAC: **149-924-8449** Lab Contact: **Veronica Borjas** Center: **160-103079 Chain of Custody**

Project Name: **CCR - Plant Behavior Ash Pond**  
 State: **Georgia**  
 P.O. #: **160-103079**

Analysis Turnaround Time:  
 2 weeks  
 3 weeks  
 4 days  
 1 day

Sample Date: **3/23/2020** Sample Time: **17:45** Sample Type: **G** Matrix: **Water** # of Matrix Com.: **3**

Sample Date: **3/23/2020** Sample Time: **18:35** Sample Type: **G** Matrix: **Water** # of Matrix Com.: **3**

Sample Date: **3/23/2020** Sample Time: **18:35** Sample Type: **G** Matrix: **Water** # of Matrix Com.: **3**

Sample Date: **3/23/2020** Sample Time: **18:00** Sample Type: **G** Matrix: **Water** # of Matrix Com.: **3**

Sample Date: **-** Sample Time: **-** Sample Type: **G** Matrix: **Water** # of Matrix Com.: **3**

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Matrix Com.	Analysis Method	Analysis Location	Analysis Date	Analysis Time	Analysis Results
50962-19	3/23/2020	17:45	G	Water	3	882 - 882 (W/Ag)	160-103079 Chain of Custody	3/24/20	8:20	
50962-20	3/23/2020	18:35	G	Water	3	882 - 882 (W/Ag)	160-103079 Chain of Custody	3/24/20	8:20	
50962-21	3/23/2020	18:35	G	Water	3	882 - 882 (W/Ag)	160-103079 Chain of Custody	3/24/20	8:20	
EB-2047	3/23/2020	18:00	G	Water	3	882 - 882 (W/Ag)	160-103079 Chain of Custody	3/24/20	8:20	
FD-2047	-	-	G	Water	3	882 - 882 (W/Ag)	160-103079 Chain of Custody	3/24/20	8:20	



Preservation Used:  Ice,  Dry Ice,  HNO<sub>3</sub>,  H<sub>2</sub>O<sub>2</sub>,  Other

Available Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 No Hazard  Hazard  Other

Special Instructions/CC Requirements & Comments:

Custody Seal No.: **3024-20 085**  
 Date/Time: **3/23/20 18:35**  
 Signature: **Deann Fyfe**

Custody Seal No.: **3024-20 085**  
 Date/Time: **3/24/20 8:20**  
 Signature: **Blaine Cook**

Custody Seal No.: **3024-20 085**  
 Date/Time: **3/24/20 8:20**  
 Signature: **Blaine Cook**

Custody Seal No.: **3024-20 085**  
 Date/Time: **3/24/20 8:20**  
 Signature: **Blaine Cook**



TestAmerica Pittsburgh  
301 Alpha Drive  
BBOC Park  
Pittsburgh, PA 15218-0007  
Phone 412-963-7058 Fax 412-963-3488

## Chain of Custody Record

TestAmerica  
NATIONWIDE REMOVAL SERVICES

TestAmerica Laboratories, Inc.

Regulatory Program:  SW  TSD  RCRA  Other

Sales Contact: Chris Tidwell Date: 3/25/20  
Lab Contact: Vernice Burke Carrier

Project Manager: Dawn Freil  
Tel/Fax: 348-624-8448

Client Contact  
Site Address:  
City, State, ZIP:  
Project Name: COC - Part Screen Ash Pond  
Site: Georgia  
PI # 19079884

Analysis Turnaround Time  
 Current Cont.  Additional Jars  
TAT if different from below: \_\_\_ 2-4 days \_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

Sample ID	Sample Type & Volume	Sample Time	Matrix	# of Containers	Analysis			
					PA	PH	PC	Other
304-0000	G	12:02	Water	2	X	X	X	X
304-0000	G	12:08	Water	2	X	X	X	X
304-0000	G	08:48	Water	2	X	X	X	X
304-0000	G	08:50	Water	2	X	X	X	X

Preservation Used: In Ice, In HCl, In HNO3, In H2SO4, In HAcOH, In Other

Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Received  Released  New Label  Special Instructions/OC Requirements & Comments

Return to Lab  Return to Client  Applied for Funding



COC No: 1 of 1 COCs

Sample: For Lab Use Only  
Walk-in Client  
Lab Sampling  
Job: 1800 Mo.

Sample Specifics: Metals  
pH: 8.21  
pH: 8.00  
pH: 8.42

Chain of Custody Table:

Date/Time	Company	Signature	Role
3/25/20 8:12 AM	Garco	<i>[Signature]</i>	Collector
3/25/20 9:52 AM	Garco	<i>[Signature]</i>	Carrier
3/25/20 10:15 AM	Garco	<i>[Signature]</i>	Analyst

Form No. CAC-99-001, Rev. 4-18, dated 3/28/2018

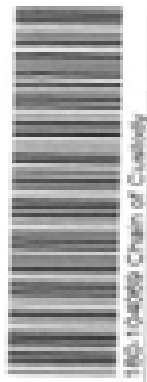
Pittsburgh, PA 15228-2907  
phone 412 963-7050 fax 412 963-3469

Regulatory Program:  SW  WQS  ISU  ISU  Other

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Dawn Prall Tel/Fax: 348-938-5445		Date: 3/28/20		COC No: 1 of 1 COCs	
Site: Georgia		Regulatory Program: <input type="checkbox"/> SW <input type="checkbox"/> WQS <input type="checkbox"/> ISU <input type="checkbox"/> ISU <input type="checkbox"/> Other		Site Contact: Chris Trivell		Carrier: 3/28/20	
Project Name: GCR - Plant Scherer Auth Pond		Analysis Turnaround Time		Lab Contact: Veronica Borbot		Sampler: For Lab Use Only	
P.O.# 18018884		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 1 day		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 1 day		Walk-in Client Lab Sampling	
Job / COC No.:		TAT if different from below: 3-5 days		Job # 18018884 COC No. 1 of 1		Job / COC No.: Job / COC No.:	

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Retention in Lab																		
						1	2	3	4	5	6	7	8	9	10	11	12							
SCMC-8	3/25/2020	11:20	G	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SCMC-8	3/25/2020	09:15	G	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SCMC-8	3/25/2020	09:18	G	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SCMC-10	3/25/2020	11:03	G	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SCMC-11	3/25/2020	11:58	G	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
EB-3(MP)	3/25/2020	11:40	G	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FD-3(MP)	-	-	G	Water	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Preservation Used: 1= Ice, 2= HCl, 3= HNO3, 4= HNO3, 5= HNO3, 6= Other


Possible Hazard Identification: Are any samples from a listed EPA hazardous waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions: Requirements & Comments:

Retention in Lab:  Return to Client  Destroy by Lab  Archive for \_\_\_\_\_ Months

Custody Seal No.:	Cooler Temp. (°C):	Blank:	Contd:	Team ID No.:
Company: <i>Retain Cook</i>	Company: <i>Retain Cook</i>	Company: <i>Retain Cook</i>	Company: <i>Retain Cook</i>	Company: <i>Retain Cook</i>
Signature: <i>Retain Cook</i>	Signature: <i>Retain Cook</i>	Signature: <i>Retain Cook</i>	Signature: <i>Retain Cook</i>	Signature: <i>Retain Cook</i>
Date: <i>3/28/20</i>	Date: <i>3/28/20</i>	Date: <i>3/28/20</i>	Date: <i>3/28/20</i>	Date: <i>3/28/20</i>



Client Contact Loju Abraham Southern Company 241 Ralph McGill Blvd SE, B1205 Atlanta, GA 30338		Regulatory Program: <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Other		Project Manager: Dawn Prall Tel/Fax: 248-528-5448		Date: 3/27/08 Carrion		Site Contact: Chris Tibbitt Lab Contact: Veronica Borstad		COC No: 1 of 1 COCs									
Project Name: CCR - Plant Scherer Ash Pond State: Georgia P O # 1167684		Analysis Turnaround Time <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Analysis Turnaround Time <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		TAT is offered from below 2-8 days		800 + 800 shipping		Samples For Lab Use Only Wash-in Client Lab Sampling Job / SOG No.:									
Sample Identification	Sample Date	Sample Time	Sample Type (e.g., water, soil)	Matrix	# of Cont.	1	2	3	4	5	6	7	8	9	10	11	12	13	Sample Specific Notes
SOMC-13	3/27/08	9:10	Water	Water	3	X	X	X	X										Job: 5-09
SOMC-14	3/27/08	10:04	Water	Water	3	X	X	X	X										Job: 3-24
SOMC-15	3/27/08	08:48	Water	Water	3	X	X	X	X										Job: 4-51
SOMC-16	3/27/08	10:09	Water	Water	3	X	X	X	X										Job: 8-17
																			
Preservation Used: <input type="checkbox"/> Ice, <input type="checkbox"/> Dry Ice, <input type="checkbox"/> Ice/Dry Ice, <input type="checkbox"/> Ambient, <input type="checkbox"/> Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Soils <input type="checkbox"/> Sludges <input type="checkbox"/> Ben. Inst. <input type="checkbox"/> Power B <input type="checkbox"/> Unknown Special Instructions/OC Requirements & Comments																			
Custody Seal Intd: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Company: <i>CCO</i>		Date/Time: 3/27/08 14:12		Received by: <i>Chris Tibbitt</i>		Company: <i>CCO</i>		Date/Time: 3/27/08		Received by: <i>Veronica Borstad</i>		Company: <i>TestAmerica</i>		Date/Time: 3/27/08	
Custody Seal Intd: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Company: <i>CCO</i>		Date/Time: 3/27/08 14:27		Received by: <i>Veronica Borstad</i>		Company: <i>TestAmerica</i>		Date/Time: 3/27/08		Received by: <i>Veronica Borstad</i>		Company: <i>TestAmerica</i>		Date/Time: 3/27/08	

Client Contact: Soja Abraham, Southern Company, 241 Ralph McGill Blvd SE, B15185, Atlanta, GA, 30309  
 Project Name: OGR - Plant Scherer Ash Pond, State: Georgia, POC: 18010884

Regulatory Program:  DW  MSW  ISUA  Other

Project Manager: Dawn Proff, Tel/Fax: 248-538-5445

Analysis Turnaround Time:  standard  expedited days  
 TAT if different from below: 3-5 days

2 weeks  
 1 week  
 2 days  
 1 day

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
50WEC-7	3/26/2020	16:34	0	Water	3
50WEC-12	3/26/2020	16:00	0	Water	4
50WEC-18	3/26/2020	16:38	0	Water	3
FB-2 (MP)	3/26/2020	17:00	0	Water	3

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5=NaOH, 6= Other

Possible Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Hazardous  Decontam.  Non-hazard

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client  Discard by Lab  Archive by Facility

Site Contact: Chris Thibault, Lab Contact: Veronica Borstad

Date: 3/26/20  
 Currier

Barcode: 180-104108 Chain of Custody

QC: No. 1 of 1 COCs

Sampler: For Lab Use Only  
 Wash-in Client:  
 Lab Sampling:

Job L800 No.:

Sample Specific Notes:  
 pH= 6.52  
 pH= 6.10, Extra Radium bottle  
 pH= 4.74

Custody Seal No.:  
 Company: Colibat  
 Date Time: 3-27-20 14:21  
 Company: 5-27-20  
 Date Time: 14:21  
 Company:

Received by: [Signature]  
 Received by: Willye Watson  
 Received by: [Signature]

Company: [Signature]  
 Company: [Signature]  
 Company:

Received by: [Signature]  
 Received by: [Signature]  
 Received by: [Signature]

Company: [Signature]  
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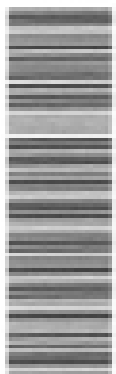
Company: [Signature]  
 Company: [Signature]  
 Company:





Environn  
TestAmerica

CRISTO PULLER (479) 968-8883  
2000  
EUROFINS TESTAMERICA  
3000 ROXBOROUGH DRIVE  
FALLS CHURCH, VA 22034  
EUROFINS TESTAMERICA  
UNITED STATES OF AMERICA

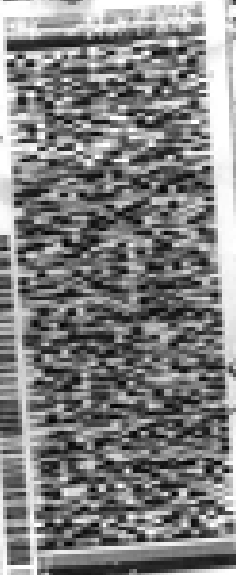


180-102988 014001

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REP. SOUTHERN CO

FedEx



THU - 19 MAR 3  
STANDARD OVERNIGHT

2 of 2  
MREF 1516 9323 1951  
MREF# 1516 9323 1940

NA AGCA

Uncorrected temp  
Thermometer ID

3.4  
17

CF 0 Initials JA

PROHIBITION AGAINST TAPING



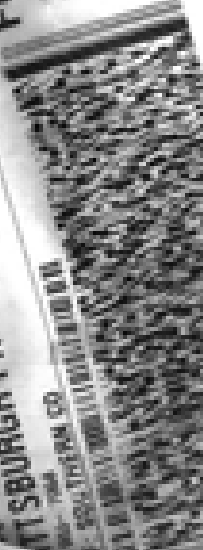
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Environment Testing  
TestAmerica

REP. SOUTHERN CO

RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

FedEx



THU - 19 MAR 3:00P  
STANDARD OVERNIGHT

15238  
PIT

1 of 2  
MREF# 1516 9323 1940

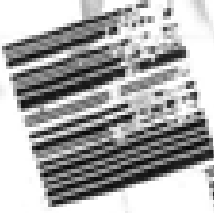
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Uncorrected temp  
Thermometer ID

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11

CF 0 Initials JA

PROHIBITION AGAINST TAPING



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Environment TestAmerica

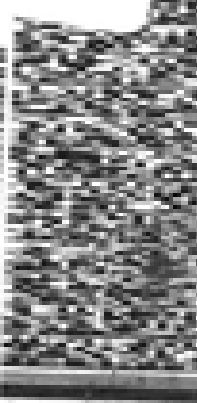
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1516 9323 2054  
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SAMPLE RECEIVING  
EUROFINS TESTAMERICA  
301 ALPHA DR.  
RIDC PARK

PITTSBURGH PA 15238

REF: GOLDBER - SCHERER



FRI - 20 MAR 3:00P  
STANDARD OVERNIGHT

2 of 3  
1516 9323 2054  
Master# 1516 9323 2053

NA AGCA

15238 PIT

Uncorrected Temp  
Thermometer ID  
CF

Initials

PROHIBIT OPEN FLAMING



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ORIGIN 1516 9323 2053  
SHIP DATE: 20  
SHIP TO: 1516 9323 2053  
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10 SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDG PARK  
PITTSBURGH PA 15238

REP: SOLDER - SCHERER



1 of 3  
FRI - 20 MAR 3:00P  
STANDARD OVERNIGHT  
1516 9323 2053

NA AGCA

Unconnected Temp Thermometer ID  
CF: Q Initials JS

ORIGIN 1516 9323 2053  
SHIP DATE: 20  
SHIP TO: 1516 9323 2053  
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11 SAMPLE RECEIVING  
EUROFINS TESTAMERICA P  
301 ALPHA DR.  
RIDG PARK  
PITTSBURGH PA 15238

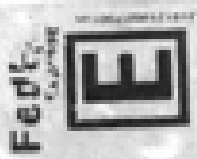
REP: SOLDER - SCHERER



3 of 3  
FRI - 20 MAR 3:00P  
STANDARD OVERNIGHT  
1516 9323 2053

NA AGCA

Unconnected Temp Thermometer ID  
CF: Q Initials JS



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91

15238  
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Environment Testing  
TestAmerica

SHIP DATE: 03/24/20  
SHIP TIME: 11:00 AM  
SHIP TO: 1516 9323 2248  
UNIT: 1516 9323 2248  
UNIT: 1516 9323 2248  
UNIT: 1516 9323 2248

SHIP DATE: 03/24/20  
SHIP TIME: 11:00 AM  
SHIP TO: 1516 9323 2248  
UNIT: 1516 9323 2248  
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UNIT: 1516 9323 2248

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: GOLDB - SCHERER



1 of 2  
WED - 25 MAR  
STANDARD OVERNIGHT

15238  
PA-US  
PIT



Uncorrected temp 12 °C  
Thermometer ID B  
CF 0 Initials B  
PT-1000-001 effective 11/01/18



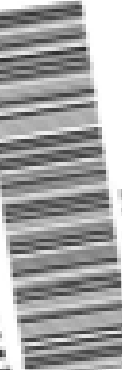
TestAmerica

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SHIP TIME: 11:00 AM  
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UNIT: 1516 9323 2248  
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UNIT: 1516 9323 2248

SHIP DATE: 03/24/20  
SHIP TIME: 11:00 AM  
SHIP TO: 1516 9323 2248  
UNIT: 1516 9323 2248  
UNIT: 1516 9323 2248  
UNIT: 1516 9323 2248

TO SAMPLE RECEIVING  
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301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: GOLDB - SCHERER



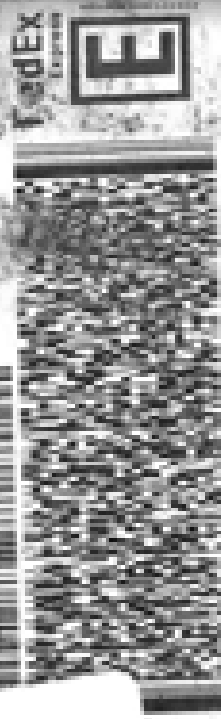
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1 of 2  
WED - 25 MAR  
STANDARD OVERNIGHT

15238  
PA-US  
PIT



Uncorrected temp 12 °C  
Thermometer ID B  
CF 0 Initials B  
PT-1000-001 effective 11/01/18



2 of 2  
WED - 25 MAR 3:00P  
STANDARD OVERNIGHT

15238  
PA-US  
PIT



Uncorrected temp 17 °C  
Thermometer ID B  
CF 0 Initials B  
PT-1000-001 effective 11/01/18



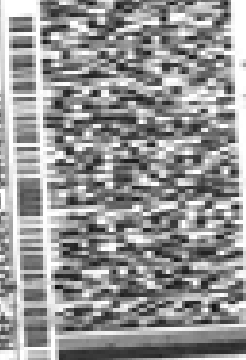
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ORIGIN BILLING (L) 6781 984-8888  
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TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

SHIP DATE: 20200326  
SHIP TIME: 08:00  
SHIP METHOD: AIR  
SHIP CLASS: 0000  
SHIP WEIGHT: 0.0000  
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SHIP VALUE: 0.0000  
SHIP INSURANCE: 0.0000  
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SHIP FEES: 0.0000  
SHIP CHARGES: 0.0000  
SHIP TOTAL: 0.0000  
SHIP STATUS: 0000  
SHIP TRACKING: 0000  
SHIP CONFIRMATION: 0000  
SHIP CANCELLED: 0000  
SHIP CANCELLED DATE: 0000

REF: GOLDR - SCHERER



THU - 26 MAR 3:00P  
STANDARD OVERNIGHT

1516 9323 2270

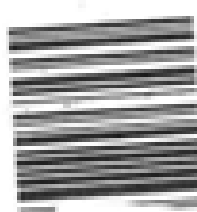
15238

NA AGCA

15238

Uncorrected temp  
Thermometer ID

CF 0 Initials JS



180-184016 794001

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eurofins

197

15/03  
15/03  
15/03

DRIVING 100.000 (678) 988-88.  
SOUTH PA, PA  
EUROFINS TESTAMERICA  
5000 MCCORMACK DRIVE  
SUITE C-10  
PITTSBURGH, PA 15238  
UNITED STATES US

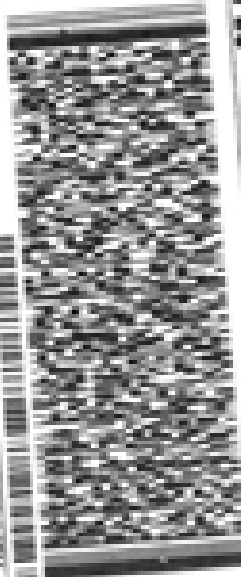
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SHIP TO: 15238  
SHIP TO: 15238

BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: SOUTHERN CO

FedEx



FRI - 27 MAR 3:00P  
STANDARD OVERNIGHT

1516 9323 2410

Master # 1516 9323 2400

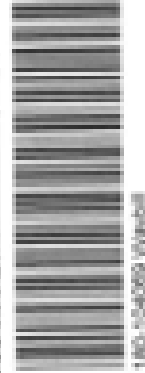
NA AGGA

15238  
PIT

PA-US

Uncorrected temp: 24.1  
Thermometer ID: 17

eurofins



150-104009 15408

DRIVING 100.000 (678) 988-88.  
SOUTH PA, PA  
EUROFINS TESTAMERICA  
5000 MCCORMACK DRIVE  
SUITE C-10  
PITTSBURGH, PA 15238  
UNITED STATES US

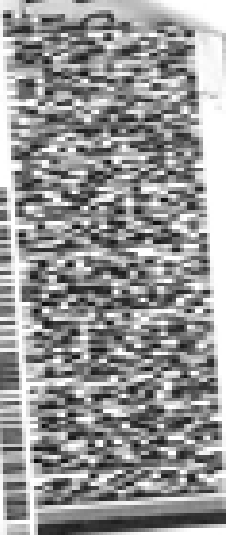
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SHIP TO: 15238

BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REF: SOUTHERN CO

FedEx



FRI

1 of 2  
1516 9323 2400

Master # 1516 9323 2400

NA AGGA

15238  
PIT

PA-US

Uncorrected temp: 24.1  
Thermometer ID: 17

CF 17

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Environment Testing  
TestAmerica

ORIGIN 101174 (678) 566-6663  
SHIP DATE: 2/20/20  
SHIP TO: 1516  
SHIP TO: 1516  
SHIP TO: 1516

SHIP DATE: 2/20/20  
SHIP TO: 1516  
SHIP TO: 1516  
SHIP TO: 1516

ORIGIN 101174 (678) 566-6663  
SHIP DATE: 2/20/20  
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SHIP TO: 1516

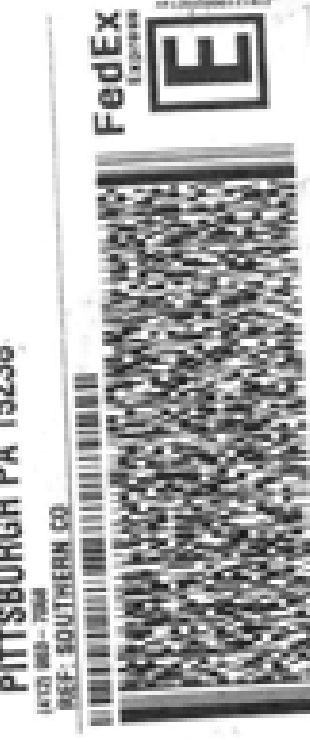
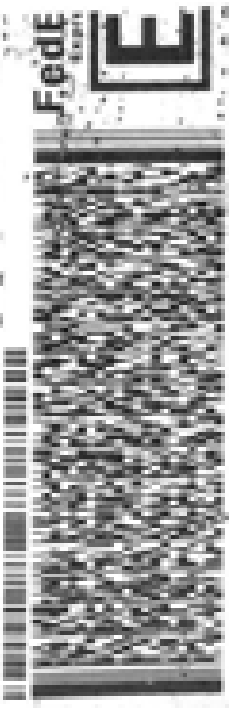
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TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
412 944-7044  
REF: SOUTHERN CO

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
412 944-7044  
REF: SOUTHERN CO



180-104107 2/20/20



1 of 4  
TRK 1516 9323 2455  
SATURDAY 12:00L  
PRIORITY OVERNIGHT  
15238  
PA-US PIT

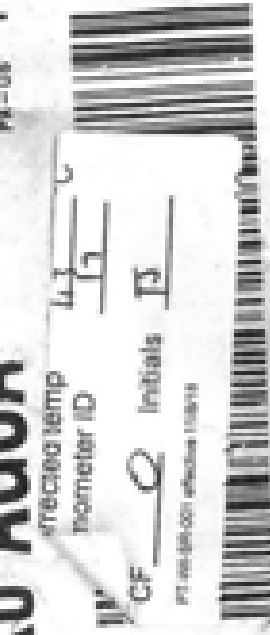
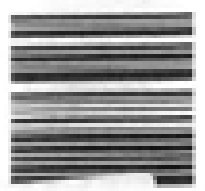
2 of 4  
MPS 1516 9323 2476  
SATURDAY 12:00P  
PRIORITY OVERNIGHT  
15238  
PA-US PIT

XO AGCA

XO AGCA

Uncorrected temp  
Thermometer ID  
CF 0 Initials R

Uncorrected temp  
Thermometer ID  
CF 0 Initials R



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Environment  
TestAmerica

1200  
4  
639

ORIGIN: DALLAS (678) 988-0000  
COUNTRY: USA  
CITY: PITTSBURGH  
STATE: PA  
ZIP: 15238  
UNITED STATES US

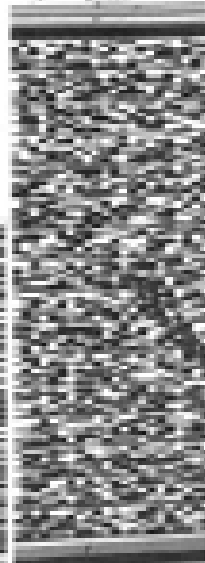
SHIP DATE: 07/04/20  
ACTUAL: 07/04/20  
CITY: PITTSBURGH  
STATE: PA  
ZIP: 15238  
UNITED STATES US

BILL TO: RECIPIENT

TO: SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

6715 988-7008  
REF: SOUTHERN 50

FedEx  
Express

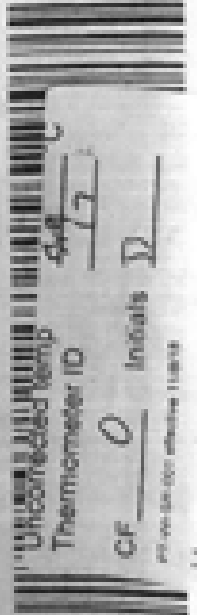


3 of 4 SATURDAY 12:00P  
PRIORITY OVERNIGHT

SHIP DATE: 07/04/20  
COUNTRY: USA  
CITY: PITTSBURGH  
STATE: PA  
ZIP: 15238  
UNITED STATES US

XO AGCA

15238  
PA-US  
PIT



UNCORRECTED TEMP  
Thermometer ID  
CF 0 Initials D



Environment Testing  
TestAmerica

ORIGIN: DALLAS (678) 988-0000  
COUNTRY: USA  
CITY: PITTSBURGH  
STATE: PA  
ZIP: 15238  
UNITED STATES US

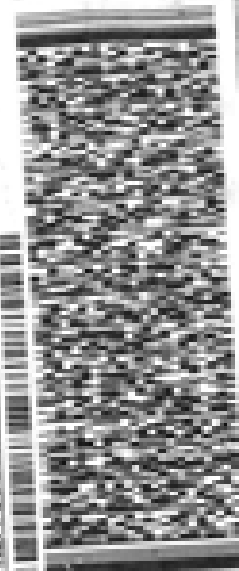
SHIP DATE: 07/04/20  
ACTUAL: 07/04/20  
CITY: PITTSBURGH  
STATE: PA  
ZIP: 15238  
UNITED STATES US

BILL TO: RECIPIENT

TO: SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

6715 988-7008  
REF: SOUTHERN 50

FedEx  
Express



4 of 4 SATURDAY 12:00P  
PRIORITY OVERNIGHT

SHIP DATE: 07/04/20  
COUNTRY: USA  
CITY: PITTSBURGH  
STATE: PA  
ZIP: 15238  
UNITED STATES US

XO A

15238  
PA-US  
PIT

UNCORRECTED TEMP  
Thermometer ID  
CF 0 Initials D



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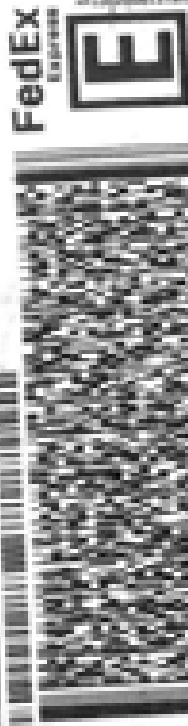
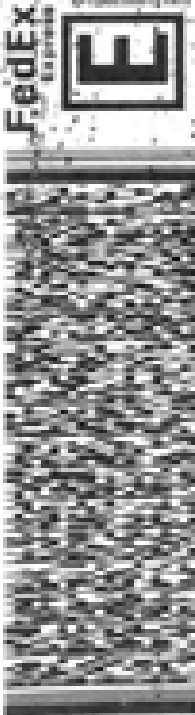
Environment Testing  
TestAmerica

ORIGIN: 151176 (679) 966-9991  
SHIP DATE: 05/06/20  
SHIP DATE: 05/06/20  
ACTIVITY: 10 AM  
CITY: PITTSBURGH  
STATE: PA  
COUNTRY: US  
BILL TO: TESTAMERICA  
BILL TO: PO BOX 2476  
SUITE: C-10  
ADDRESS: 1516 SOUTHERN CO  
UNITED STATES US

SHIP DATE: 05/06/20  
SHIP DATE: 05/06/20  
ACTIVITY: 10 AM  
CITY: PITTSBURGH  
STATE: PA  
COUNTRY: US  
BILL TO: TESTAMERICA  
BILL TO: PO BOX 2476  
SUITE: C-10  
ADDRESS: 1516 SOUTHERN CO  
UNITED STATES US

TO: SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
412 966-7006  
REF: SOUTHERN CO

TO: SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
412 966-7006  
REF: SOUTHERN CO

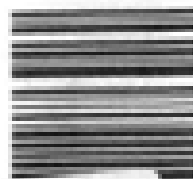


1 of 4  
TRK# 1516 9323 2465  
REF MASTER #  
**XO AGCA**  
SATURDAY 12:00P  
PRIORITY OVERNIGHT  
15238  
PA-US -PIT

2 of 4  
TRK# 1516 9323 2476  
REF MASTER #  
**XO AGCA**  
SATURDAY 12:00P  
PRIORITY OVERNIGHT  
15238  
PA-US -PIT

Uncorrected temp 41.1 °C  
Thermometer ID 17  
CF 0 Initials IL  
PT: 05/06/20 05:06:10 (15176)

Corrected temp 41.1 °C  
Thermometer ID 17  
CF 0 Initials IL  
PT: 05/06/20 05:06:10 (15176)





Environment  
TestAmer

1208

639

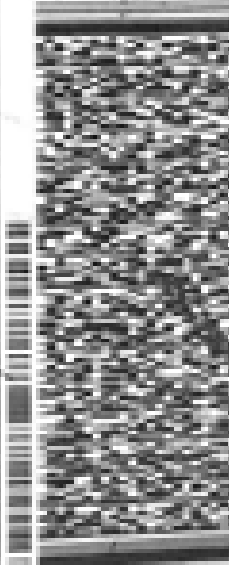
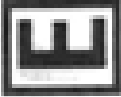
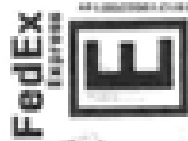
ORDER FULLY (FORM 999-0000)  
ORDER FULLY (FORM 999-0000)  
ORDER FULLY (FORM 999-0000)  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000

BILL TO: RECIPIENT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

(FORM 999-0000)  
REF: SOUTHERN 50



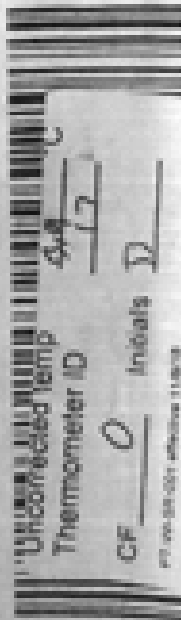
3 of 4  
SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US



UNCONNECTED Temp  
Thermometer ID  
CF 0 Initials D

FORM 999-0000



Environment Testing  
TestAmerica

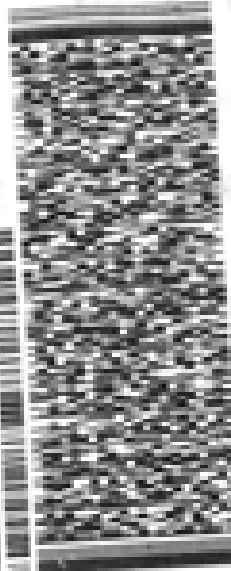
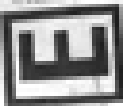
ORDER FULLY (FORM 999-0000)  
ORDER FULLY (FORM 999-0000)  
ORDER FULLY (FORM 999-0000)  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000

BILL TO: RECIPIENT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

(FORM 999-0000)  
REF: SOUTHERN 50



4 of 4  
SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

SHIP DATE: 07/18/20  
ACTIVITY: 07/18/20  
CONF: 000000000000000000000000  
SUITE C-10  
ROCKFORD, IL 60089  
UNITED STATES US

UNCONNECTED Temp  
Thermometer ID  
CF 0 Initials D

FORM 999-0000



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## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 103766**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 103766**

**List Number: 2**

**Creator: Korrinhizer, Micha L**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 03/23/20 01:14 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 103814**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 103814**

**List Number: 2**

**Creator: Mazariegos, Leonel A**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 03/24/20 06:52 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	





# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 103979**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 103979**

**List Number: 2**

**Creator: Mazariegos, Leonel A**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 03/27/20 02:07 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 104016**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 104016**

**List Number: 2**

**Creator: Korrinhizer, Micha L**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 03/30/20 11:10 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 104069**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 104069**

**List Number: 2**

**Creator: Mazariegos, Leonel A**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 04/01/20 03:36 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 104107**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 104107**

**List Number: 2**

**Creator: Mazariegos, Leonel A**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 04/01/20 03:26 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 104108**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103766-2

**Login Number: 104108**

**List Number: 2**

**Creator: Mazariegos, Leonel A**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 04/01/20 03:45 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

**APPENDIX A**

**ANALYTICAL RESULTS  
SEPTEMBER 2020**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-111040-1

Client Project/Site: Plant Scherer Ash Pond

For:

Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
10/13/2020 8:52:38 AM

Shali Brown, Project Manager II  
(615)301-5031  
[Shali.Brown@Eurofinset.com](mailto:Shali.Brown@Eurofinset.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416

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# Case Narrative

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Job ID: 180-111040-1**

**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

### Job Narrative 180-111040-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/16/2020 9:45 AM and 9/17/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 1.8° C, 1.8° C, 1.9° C, 2.1° C, 2.6° C, 3.2° C, 3.8° C and 4.0° C.

#### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): SGWA-1 (180-111040-1), SGWA-2 (180-111040-2), SGWA-3 (180-111040-3), SGWA-4 (180-111040-4), SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), SGWC-6 (180-111040-8), SGWC-7 (180-111040-9), SGWC-8 (180-111040-10), SGWC-9 (180-111040-11), SGWC-10 (180-111040-12), SGWC-11 (180-111040-13), SGWC-12 (180-111040-14), SGWC-13 (180-111040-15), FB-1 (AP) (180-111040-16), EB-1 (AP) (180-111040-17) and FD-1 (AP) (180-111040-18). The container labels all have a sample collection date of 9/14/20; while the COC has different dates with some in the future. The client was contacted and confirmed the collection for all samples is 9/14/20.

The container label for the 500 ml container for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWA-24 (180-111040-6). The container labels list SGWA-5, while the COC lists SGWA-24. The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWA-2 (180-111040-2). The container labels list SGWA-1, while the COC lists SGWA-2. The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWA-3 (180-111040-3). The container labels list SGWA-4, while the COC lists SGWA-3. The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWC-8 (180-111040-10). The container labels list a sample collection time of 14:00, while the COC lists 12:45. The time on the COC was used.

The container label for the nitric half gallon container for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWC-10 (180-111040-12). The container label does not have the id on the label; however the ID was on the TDS and Nitric containers and all the containers were in the same bag.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⌘	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20 *
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-21
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-21

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.





# Sample Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-111040-1	SGWA-1	Water	09/14/20 11:36	09/16/20 09:45	
180-111040-2	SGWA-2	Water	09/14/20 12:31	09/16/20 09:45	
180-111040-3	SGWA-3	Water	09/14/20 12:20	09/16/20 09:45	
180-111040-4	SGWA-4	Water	09/14/20 11:00	09/16/20 09:45	
180-111040-5	SGWA-5	Water	09/14/20 11:25	09/16/20 09:45	
180-111040-6	SGWA-24	Water	09/14/20 12:45	09/16/20 09:45	
180-111040-7	SGWA-25	Water	09/14/20 14:00	09/16/20 09:45	
180-111040-8	SGWC-6	Water	09/14/20 13:40	09/16/20 09:45	
180-111040-9	SGWC-7	Water	09/14/20 14:38	09/16/20 09:45	
180-111040-10	SGWC-8	Water	09/14/20 14:00	09/16/20 09:45	
180-111040-11	SGWC-9	Water	09/14/20 15:00	09/16/20 09:45	
180-111040-12	SGWC-10	Water	09/14/20 16:05	09/16/20 09:45	
180-111040-13	SGWC-11	Water	09/14/20 15:35	09/16/20 09:45	
180-111040-14	SGWC-12	Water	09/14/20 16:40	09/16/20 09:45	
180-111040-15	SGWC-13	Water	09/14/20 16:00	09/16/20 09:45	
180-111040-16	FB-1 (AP)	Water	09/14/20 11:10	09/16/20 09:45	
180-111040-17	EB-1 (AP)	Water	09/14/20 16:40	09/16/20 09:45	
180-111040-18	FD-1 (AP)	Water	09/14/20 00:00	09/16/20 09:45	
180-111111-1	SGWC-14	Water	09/15/20 09:25	09/17/20 09:30	
180-111111-2	SGWC-15	Water	09/15/20 10:40	09/17/20 09:30	
180-111111-3	SGWC-16	Water	09/15/20 11:55	09/17/20 09:30	
180-111111-4	SGWC-17	Water	09/15/20 13:40	09/17/20 09:30	
180-111111-5	SGWC-18	Water	09/15/20 15:05	09/17/20 09:30	
180-111111-6	SGWC19	Water	09/15/20 13:55	09/17/20 09:30	
180-111111-7	SGWC-20	Water	09/15/20 15:02	09/17/20 09:30	
180-111111-8	SGWC-21	Water	09/15/20 15:40	09/17/20 09:30	
180-111111-9	SGWC-22	Water	09/15/20 15:20	09/17/20 09:30	
180-111111-10	SGWC-23	Water	09/15/20 14:30	09/17/20 09:30	
180-111111-11	FD-2 (AP)	Water	09/15/20 00:00	09/17/20 09:30	
180-111111-12	EB-2 (AP)	Water	09/15/20 13:45	09/17/20 09:30	
180-111111-13	FB-2 (AP)	Water	09/15/20 09:00	09/17/20 09:30	

# Method Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Client Sample ID: SGWA-1

## Lab Sample ID: 180-111040-1

Date Collected: 09/14/20 11:36

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 06:19	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:10	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:26	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330137	09/17/20 08:49	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 11:36	JDW	TAL PIT

## Client Sample ID: SGWA-2

## Lab Sample ID: 180-111040-2

Date Collected: 09/14/20 12:31

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 07:27	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:12	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:29	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 12:31	JDW	TAL PIT

## Client Sample ID: SGWA-3

## Lab Sample ID: 180-111040-3

Date Collected: 09/14/20 12:20

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 07:44	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:15	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:32	KEM	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Client Sample ID: SGWA-3

Lab Sample ID: 180-111040-3

Date Collected: 09/14/20 12:20

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling		1			330379	09/14/20 12:20	JDW	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: SGWA-4

Lab Sample ID: 180-111040-4

Date Collected: 09/14/20 11:00

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331198	09/25/20 08:00	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332374	10/05/20 12:23	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 11:33	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			330379	09/14/20 11:00	JDW	TAL PIT
Instrument ID: NOEQUIP										

## Client Sample ID: SGWA-5

Lab Sample ID: 180-111040-5

Date Collected: 09/14/20 11:25

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331198	09/25/20 08:22	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332374	10/05/20 12:25	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 11:34	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			330379	09/14/20 11:25	JDW	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWA-24**  
**Date Collected: 09/14/20 12:45**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 08:39	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:28	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:35	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 12:45	JDW	TAL PIT

**Client Sample ID: SGWA-25**  
**Date Collected: 09/14/20 14:00**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 09:28	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:31	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:36	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 14:00	JDW	TAL PIT

**Client Sample ID: SGWC-6**  
**Date Collected: 09/14/20 13:40**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 09:44	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:33	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:37	KEM	TAL PIT

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# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Client Sample ID: SGWC-6

## Lab Sample ID: 180-111040-8

Date Collected: 09/14/20 13:40

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 13:40	JDW	TAL PIT

## Client Sample ID: SGWC-7

## Lab Sample ID: 180-111040-9

Date Collected: 09/14/20 14:38

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 10:01	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:36	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:37	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 14:38	JDW	TAL PIT

## Client Sample ID: SGWC-8

## Lab Sample ID: 180-111040-10

Date Collected: 09/14/20 14:00

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 10:17	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:38	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:38	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 14:00	JDW	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-111040-11**

**Date Collected: 09/14/20 15:00**

**Matrix: Water**

**Date Received: 09/16/20 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 11:22	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		5			331198	09/25/20 15:42	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:41	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:39	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 15:00	JDW	TAL PIT

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-111040-12**

**Date Collected: 09/14/20 16:05**

**Matrix: Water**

**Date Received: 09/16/20 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 10:33	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:44	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:40	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/14/20 16:05	JDW	TAL PIT

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-111040-13**

**Date Collected: 09/14/20 15:35**

**Matrix: Water**

**Date Received: 09/16/20 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 11:55	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331484	09/28/20 09:50	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332374	10/05/20 12:46	RJR	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-111040-13**

Date Collected: 09/14/20 15:35

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 11:43	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			330379	09/14/20 15:35	JDW	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-111040-14**

Date Collected: 09/14/20 16:40

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331198	09/25/20 12:44	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332688	10/07/20 15:19	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 11:44	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			330379	09/14/20 16:40	JDW	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-111040-15**

Date Collected: 09/14/20 16:00

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331198	09/25/20 13:00	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332688	10/07/20 15:22	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 11:45	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			330379	09/14/20 16:00	JDW	TAL PIT
Instrument ID: NOEQUIP										



# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: FB-1 (AP)**  
**Date Collected: 09/14/20 11:10**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-16**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 13:17	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 15:25	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:46	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT

**Client Sample ID: EB-1 (AP)**  
**Date Collected: 09/14/20 16:40**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-17**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 13:33	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 15:27	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:47	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT

**Client Sample ID: FD-1 (AP)**  
**Date Collected: 09/14/20 00:00**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-18**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			331198	09/25/20 11:39	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		5			331198	09/25/20 15:58	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 15:30	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331593	09/29/20 07:46	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 11:48	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330308	09/18/20 07:26	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-14**  
**Date Collected: 09/15/20 09:25**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			331434	09/28/20 10:27	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 16:16	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 12:50	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330322	09/18/20 09:15	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/15/20 09:25	JDW	TAL PIT

**Client Sample ID: SGWC-15**  
**Date Collected: 09/15/20 10:40**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			331434	09/28/20 10:48	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 16:18	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 12:53	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330322	09/18/20 09:15	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/15/20 10:40	JDW	TAL PIT

**Client Sample ID: SGWC-16**  
**Date Collected: 09/15/20 11:55**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			331434	09/28/20 11:09	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 16:21	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 12:54	KEM	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-16**  
**Date Collected: 09/15/20 11:55**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330322	09/18/20 07:48	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/15/20 11:55	JDW	TAL PIT

**Client Sample ID: SGWC-17**  
**Date Collected: 09/15/20 13:40**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			331434	09/28/20 14:58	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 09:54	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 16:24	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 12:55	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330322	09/18/20 09:15	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/15/20 13:40	JDW	TAL PIT

**Client Sample ID: SGWC-18**  
**Date Collected: 09/15/20 15:05**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			331434	09/28/20 13:35	EPS	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		10			331434	09/28/20 13:56	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 10:00	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 16:26	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 12:56	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330657	09/21/20 15:45	GRB	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/15/20 15:05	JDW	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC19**

**Lab Sample ID: 180-111111-6**

**Date Collected: 09/15/20 13:55**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			331434	09/28/20 17:04	EPS	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		5			331551	09/29/20 10:41	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331485	09/28/20 10:00	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 16:29	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 12:57	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330322	09/18/20 09:15	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/15/20 13:55	JDW	TAL PIT

**Client Sample ID: SGWC-20**

**Lab Sample ID: 180-111111-7**

**Date Collected: 09/15/20 15:02**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			331434	09/28/20 17:24	EPS	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		5			331551	09/29/20 11:02	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			332939	10/09/20 15:08	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332688	10/07/20 17:53	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 19:48	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			331854	09/30/20 13:00	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	330322	09/18/20 09:15	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			330379	09/15/20 15:02	JDW	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-21**

**Lab Sample ID: 180-111111-8**

**Date Collected: 09/15/20 15:40**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331434	09/28/20 17:45	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332939	10/09/20 15:11	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332688	10/07/20 17:55	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 19:51	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 13:01	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330322	09/18/20 09:15	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			330379	09/15/20 15:40	JDW	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-22**

**Lab Sample ID: 180-111111-9**

**Date Collected: 09/15/20 15:20**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331434	09/28/20 18:06	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332939	10/09/20 15:29	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332688	10/07/20 18:13	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 20:03	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 13:02	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330322	09/18/20 09:15	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			330379	09/15/20 15:20	JDW	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-111111-10**

**Date Collected: 09/15/20 14:30**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331434	09/28/20 16:01	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332939	10/09/20 15:33	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332688	10/07/20 18:15	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 20:11	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331590	09/29/20 07:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 13:03	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330322	09/18/20 09:15	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			330379	09/15/20 14:30	JDW	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FD-2 (AP)**

**Lab Sample ID: 180-111111-11**

**Date Collected: 09/15/20 00:00**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331434	09/28/20 14:17	EPS	TAL PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	EPA 300.0 R2.1		10			331434	09/28/20 14:38	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332939	10/09/20 15:36	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332688	10/07/20 18:18	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 20:14	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331653	09/29/20 12:07	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 14:09	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330657	09/21/20 15:47	GRB	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: EB-2 (AP)**

**Lab Sample ID: 180-111111-12**

**Date Collected: 09/15/20 13:45**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331434	09/28/20 12:11	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332939	10/09/20 15:47	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332688	10/07/20 18:20	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 20:16	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331653	09/29/20 12:07	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 14:10	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330322	09/18/20 07:31	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-2 (AP)**

**Lab Sample ID: 180-111111-13**

**Date Collected: 09/15/20 09:00**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			331434	09/28/20 12:32	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332939	10/09/20 15:51	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332688	10/07/20 18:23	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	331691	09/29/20 15:31	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 20:19	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	331653	09/29/20 12:07	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			331854	09/30/20 14:11	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	330322	09/18/20 07:31	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Laboratory References:**

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Analyst References:

Lab: TAL PIT

Batch Type: Prep

KHM = Kyle Mucroski

MM1 = Mary Beth Miller

TJO = Tyler Oliver

Batch Type: Analysis

AVS = Abbey Smith

EPS = Evan Scheuer

GRB = Gabriel Berghe

JDW = Jacob Wiedemer

KEM = Kimberly Mahoney

MJH = Matthew Hartman

RJR = Ron Rosenbaum

RSK = Robert Kurtz

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# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWA-1**

**Lab Sample ID: 180-111040-1**

Date Collected: 09/14/20 11:36

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.1</b>		1.0	0.32	mg/L			09/25/20 06:19	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 06:19	1
<b>Sulfate</b>	<b>0.58</b>	<b>J</b>	1.0	0.38	mg/L			09/25/20 06:19	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:10	1
<b>Barium</b>	<b>0.043</b>		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:10	1
<b>Beryllium</b>	<b>0.00051</b>	<b>J</b>	0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:10	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:10	1
<b>Calcium</b>	<b>1.6</b>		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:10	1
<b>Cobalt</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:10	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:10	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:10	1
<b>Thallium</b>	<b>0.00039</b>	<b>J</b>	0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:10	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>20</b>		10	10	mg/L			09/17/20 08:49	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.11</b>				SU			09/14/20 11:36	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWA-2**

**Lab Sample ID: 180-111040-2**

Date Collected: 09/14/20 12:31

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.32	mg/L			09/25/20 07:27	1
Fluoride	0.033	J	0.10	0.026	mg/L			09/25/20 07:27	1
Sulfate	<0.38		1.0	0.38	mg/L			09/25/20 07:27	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:12	1
Barium	0.038		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:12	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:12	1
Calcium	11		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:12	1
Chromium	0.014		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:12	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:12	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:12	1
Thallium	0.00016	J	0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:12	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	93		10	10	mg/L			09/18/20 07:26	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.73				SU			09/14/20 12:31	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-111040-3**

Date Collected: 09/14/20 12:20

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.32	mg/L			09/25/20 07:44	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 07:44	1
Sulfate	0.82	J	1.0	0.38	mg/L			09/25/20 07:44	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:15	1
Barium	0.039		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:15	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:15	1
Calcium	5.7		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:15	1
Chromium	0.018		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:15	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:15	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	55		10	10	mg/L			09/18/20 07:26	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.84				SU			09/14/20 12:20	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWA-4**

**Lab Sample ID: 180-111040-4**

Date Collected: 09/14/20 11:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.32	mg/L			09/25/20 08:00	1
Fluoride	0.035	J	0.10	0.026	mg/L			09/25/20 08:00	1
Sulfate	0.96	J	1.0	0.38	mg/L			09/25/20 08:00	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:23	1
Barium	0.068		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:23	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:23	1
Calcium	17		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:23	1
Chromium	0.0054		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:23	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:23	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:23	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/18/20 07:26	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.40				SU			09/14/20 11:00	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWA-5**

**Lab Sample ID: 180-111040-5**

Date Collected: 09/14/20 11:25

Matrix: Water

Date Received: 09/16/20 09:45

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.9</b>		1.0	0.32	mg/L			09/25/20 08:22	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 08:22	1
Sulfate	<0.38		1.0	0.38	mg/L			09/25/20 08:22	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:25	1
<b>Barium</b>	<b>0.011</b>		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:25	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:25	1
<b>Calcium</b>	<b>1.6</b>		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:25	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:25	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:34	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>36</b>		10	10	mg/L			09/18/20 07:26	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.82</b>				SU			09/14/20 11:25	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWA-24**

**Lab Sample ID: 180-111040-6**

Date Collected: 09/14/20 12:45

Matrix: Water

Date Received: 09/16/20 09:45

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.32	mg/L			09/25/20 08:39	1
Fluoride	0.038	J	0.10	0.026	mg/L			09/25/20 08:39	1
Sulfate	<0.38		1.0	0.38	mg/L			09/25/20 08:39	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:28	1
Barium	0.024		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:28	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:28	1
Calcium	14		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:28	1
Chromium	0.0050		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:28	1
Cobalt	0.00031	J	0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:28	1
Lead	0.00014	J	0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:28	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:28	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:35	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	95		10	10	mg/L			09/18/20 07:26	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.52				SU			09/14/20 12:45	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWA-25**

**Lab Sample ID: 180-111040-7**

Date Collected: 09/14/20 14:00

Matrix: Water

Date Received: 09/16/20 09:45

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.32	mg/L			09/25/20 09:28	1
Fluoride	0.028	J	0.10	0.026	mg/L			09/25/20 09:28	1
Sulfate	<0.38		1.0	0.38	mg/L			09/25/20 09:28	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:31	1
Barium	0.026		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:31	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:31	1
Calcium	9.1		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:31	1
Chromium	0.0021		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:31	1
Cobalt	0.0020	J	0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:31	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:36	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	71		10	10	mg/L			09/18/20 07:26	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.98				SU			09/14/20 14:00	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-6**

**Lab Sample ID: 180-111040-8**

Date Collected: 09/14/20 13:40

Matrix: Water

Date Received: 09/16/20 09:45

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.32	mg/L			09/25/20 09:44	1
Fluoride	0.076	J	0.10	0.026	mg/L			09/25/20 09:44	1
Sulfate	0.46	J	1.0	0.38	mg/L			09/25/20 09:44	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:33	1
Barium	0.14		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:33	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:33	1
Calcium	10		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:33	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:33	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:33	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:37	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	99		10	10	mg/L			09/18/20 07:26	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.29				SU			09/14/20 13:40	1



# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-7**

**Lab Sample ID: 180-111040-9**

Date Collected: 09/14/20 14:38

Matrix: Water

Date Received: 09/16/20 09:45

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.8		1.0	0.32	mg/L			09/25/20 10:01	1
Fluoride	0.11		0.10	0.026	mg/L			09/25/20 10:01	1
Sulfate	17		1.0	0.38	mg/L			09/25/20 10:01	1

## Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:36	1
Barium	0.27		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:36	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:36	1
Calcium	20		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:36	1
Cobalt	0.0063		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:36	1
Lithium	0.0051		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:36	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:36	1

## Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:37	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			09/18/20 07:26	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.31				SU			09/14/20 14:38	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-8**

**Lab Sample ID: 180-111040-10**

Date Collected: 09/14/20 14:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.32	mg/L			09/25/20 10:17	1
Fluoride	0.29		0.10	0.026	mg/L			09/25/20 10:17	1
Sulfate	81		1.0	0.38	mg/L			09/25/20 10:17	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:38	1
Barium	0.18		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:38	1
Boron	0.10		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:38	1
Calcium	49		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:38	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:38	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:38	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	360		10	10	mg/L			09/18/20 07:26	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.56				SU			09/14/20 14:00	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-111040-11**

Date Collected: 09/14/20 15:00

Matrix: Water

Date Received: 09/16/20 09:45

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		1.0	0.32	mg/L			09/25/20 11:22	1
Fluoride	0.037	J	0.10	0.026	mg/L			09/25/20 11:22	1
Sulfate	220		5.0	1.9	mg/L			09/25/20 15:42	5

## Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:41	1
Barium	0.059		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:41	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:41	1
Boron	1.7		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:41	1
Calcium	45		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:41	1
Cobalt	0.00048	J	0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:41	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:41	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:41	1

## Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:39	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	470		10	10	mg/L			09/18/20 07:26	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.33				SU			09/14/20 15:00	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-111040-12**

Date Collected: 09/14/20 16:05

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>10</b>		1.0	0.32	mg/L			09/25/20 10:33	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 10:33	1
<b>Sulfate</b>	<b>2.2</b>		1.0	0.38	mg/L			09/25/20 10:33	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:44	1
<b>Barium</b>	<b>0.027</b>		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:44	1
<b>Boron</b>	<b>0.082</b>		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:44	1
<b>Calcium</b>	<b>0.75</b>		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:44	1
<b>Cobalt</b>	<b>0.022</b>		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:44	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:44	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:44	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>45</b>		10	10	mg/L			09/18/20 07:26	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.51</b>				SU			09/14/20 16:05	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-111040-13**

Date Collected: 09/14/20 15:35

Matrix: Water

Date Received: 09/16/20 09:45

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.32	mg/L			09/25/20 11:55	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 11:55	1
Sulfate	0.59	J	1.0	0.38	mg/L			09/25/20 11:55	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 12:46	1
Barium	0.042		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 12:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 12:46	1
Boron	0.43		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 12:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 12:46	1
Calcium	1.8		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 12:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 12:46	1
Cobalt	0.019		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 12:46	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 12:46	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 12:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 12:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 12:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 12:46	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:43	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	39		10	10	mg/L			09/18/20 07:26	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.14				SU			09/14/20 15:35	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-111040-14**

Date Collected: 09/14/20 16:40

Matrix: Water

Date Received: 09/16/20 09:45

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.32	mg/L			09/25/20 12:44	1
Fluoride	0.042	J	0.10	0.026	mg/L			09/25/20 12:44	1
Sulfate	41		1.0	0.38	mg/L			09/25/20 12:44	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 15:19	1
Barium	0.057		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 15:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 15:19	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 15:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 15:19	1
Calcium	22		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 15:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 15:19	1
Cobalt	0.0010	J	0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 15:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 15:19	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 15:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 15:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 15:19	1
Thallium	0.00023	J	0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 15:19	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:44	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			09/18/20 07:26	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.11				SU			09/14/20 16:40	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-111040-15**

Date Collected: 09/14/20 16:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>11</b>		1.0	0.32	mg/L			09/25/20 13:00	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 13:00	1
<b>Sulfate</b>	<b>89</b>		1.0	0.38	mg/L			09/25/20 13:00	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 15:22	1
<b>Barium</b>	<b>0.039</b>		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 15:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 15:22	1
<b>Boron</b>	<b>0.49</b>		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 15:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 15:22	1
<b>Calcium</b>	<b>19</b>		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 15:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 15:22	1
<b>Cobalt</b>	<b>0.0022 J</b>		0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 15:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 15:22	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 15:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 15:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 15:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 15:22	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>190</b>		10	10	mg/L			09/18/20 07:26	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.00</b>				SU			09/14/20 16:00	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: FB-1 (AP)**

**Lab Sample ID: 180-111040-16**

Date Collected: 09/14/20 11:10

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			09/25/20 13:17	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 13:17	1
Sulfate	<0.38		1.0	0.38	mg/L			09/25/20 13:17	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 15:25	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 15:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 15:25	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 15:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 15:25	1
Calcium	<0.13		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 15:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 15:25	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 15:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 15:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 15:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 15:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 15:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 15:25	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/18/20 07:26	1



# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: EB-1 (AP)**

**Lab Sample ID: 180-111040-17**

Date Collected: 09/14/20 16:40

Matrix: Water

Date Received: 09/16/20 09:45

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			09/25/20 13:33	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 13:33	1
Sulfate	<0.38		1.0	0.38	mg/L			09/25/20 13:33	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 15:27	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 15:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 15:27	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 15:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 15:27	1
Calcium	<0.13		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 15:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 15:27	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 15:27	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 15:27	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 15:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 15:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 15:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 15:27	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:47	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/18/20 07:26	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: FD-1 (AP)**

**Lab Sample ID: 180-111040-18**

Date Collected: 09/14/20 00:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		1.0	0.32	mg/L			09/25/20 11:39	1
Fluoride	0.040	J	0.10	0.026	mg/L			09/25/20 11:39	1
Sulfate	250		5.0	1.9	mg/L			09/25/20 15:58	5

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 15:30	1
Barium	0.063		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 15:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 15:30	1
Boron	1.6		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 15:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 15:30	1
Calcium	46		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 15:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 15:30	1
Cobalt	0.00044	J	0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 15:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 15:30	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 15:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 15:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 15:30	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 15:30	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	480		10	10	mg/L			09/18/20 07:26	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-14**

**Lab Sample ID: 180-111111-1**

Date Collected: 09/15/20 09:25

Matrix: Water

Date Received: 09/17/20 09:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.32	mg/L			09/28/20 10:27	1
Fluoride	0.040	J	0.10	0.026	mg/L			09/28/20 10:27	1
Sulfate	180		1.0	0.38	mg/L			09/28/20 10:27	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 16:16	1
Barium	0.050		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 16:16	1
Beryllium	0.00020	J	0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 16:16	1
Boron	1.5		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 16:16	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 16:16	1
Calcium	40		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 16:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 16:16	1
Cobalt	0.0076		0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 16:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 16:16	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 16:16	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 16:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 16:16	1
Thallium	0.00035	J	0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 16:16	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 12:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	360		10	10	mg/L			09/18/20 09:15	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.01				SU			09/15/20 09:25	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-111111-2**

Date Collected: 09/15/20 10:40

Matrix: Water

Date Received: 09/17/20 09:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.32	mg/L			09/28/20 10:48	1
Fluoride	0.15		0.10	0.026	mg/L			09/28/20 10:48	1
Sulfate	190		1.0	0.38	mg/L			09/28/20 10:48	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0014		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 16:18	1
Barium	0.031		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 16:18	1
Beryllium	0.00053	J	0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 16:18	1
Boron	1.4		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 16:18	1
Cadmium	0.00032	J	0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 16:18	1
Calcium	17		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 16:18	1
Chromium	0.034		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 16:18	1
Cobalt	0.25		0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 16:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 16:18	1
Lithium	0.0037	J	0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 16:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 16:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 16:18	1
Thallium	0.00027	J	0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 16:18	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 12:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10	10	mg/L			09/18/20 09:15	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.87				SU			09/15/20 10:40	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-16**

**Lab Sample ID: 180-111111-3**

Date Collected: 09/15/20 11:55

Matrix: Water

Date Received: 09/17/20 09:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.6		1.0	0.32	mg/L			09/28/20 11:09	1
Fluoride	0.037	J	0.10	0.026	mg/L			09/28/20 11:09	1
Sulfate	36		1.0	0.38	mg/L			09/28/20 11:09	1

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 16:21	1
Barium	0.031		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 16:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 16:21	1
Boron	0.57		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 16:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 16:21	1
Calcium	1.1		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 16:21	1
Chromium	0.012		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 16:21	1
Cobalt	0.0043		0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 16:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 16:21	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 16:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 16:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 16:21	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 16:21	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 12:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	90		10	10	mg/L			09/18/20 07:48	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.56				SU			09/15/20 11:55	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-17**

**Lab Sample ID: 180-111111-4**

Date Collected: 09/15/20 13:40

Matrix: Water

Date Received: 09/17/20 09:30

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.4		1.0	0.32	mg/L			09/28/20 14:58	1
Fluoride	0.052	J	0.10	0.026	mg/L			09/28/20 14:58	1
Sulfate	190		1.0	0.38	mg/L			09/28/20 14:58	1

## Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 16:24	1
Barium	0.025		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 16:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 16:24	1
Boron	0.38		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 16:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 16:24	1
Calcium	54		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 16:24	1
Chromium	0.0091		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 16:24	1
Cobalt	0.00041	J	0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 16:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 16:24	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 16:24	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 16:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 16:24	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 16:24	1

## Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 12:55	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	440		10	10	mg/L			09/18/20 09:15	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			09/15/20 13:40	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-18**

**Lab Sample ID: 180-111111-5**

Date Collected: 09/15/20 15:05

Matrix: Water

Date Received: 09/17/20 09:30

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.32	mg/L			09/28/20 13:35	1
Fluoride	<0.026		0.10	0.026	mg/L			09/28/20 13:35	1
Sulfate	860		10	3.8	mg/L			09/28/20 13:56	10

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0045		0.0010	0.00031	mg/L		09/28/20 10:00	10/07/20 16:26	1
Barium	0.020		0.010	0.0016	mg/L		09/28/20 10:00	10/07/20 16:26	1
Beryllium	0.00030	J	0.0025	0.00018	mg/L		09/28/20 10:00	10/07/20 16:26	1
Boron	6.2		0.080	0.039	mg/L		09/28/20 10:00	10/07/20 16:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 10:00	10/07/20 16:26	1
Calcium	74		0.50	0.13	mg/L		09/28/20 10:00	10/07/20 16:26	1
Chromium	0.010		0.0020	0.0015	mg/L		09/28/20 10:00	10/07/20 16:26	1
Cobalt	0.12		0.0025	0.00013	mg/L		09/28/20 10:00	10/07/20 16:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 10:00	10/07/20 16:26	1
Lithium	0.0049	J	0.0050	0.0034	mg/L		09/28/20 10:00	10/07/20 16:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 10:00	10/07/20 16:26	1
Selenium	0.0030	J	0.0050	0.0015	mg/L		09/28/20 10:00	10/07/20 16:26	1
Thallium	0.00027	J	0.0010	0.00015	mg/L		09/28/20 10:00	10/07/20 16:26	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 12:56	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10	10	mg/L			09/21/20 15:45	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.94				SU			09/15/20 15:05	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC19**

**Lab Sample ID: 180-111111-6**

Date Collected: 09/15/20 13:55

Matrix: Water

Date Received: 09/17/20 09:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>7.7</b>		1.0	0.32	mg/L			09/28/20 17:04	1
Fluoride	<0.026		0.10	0.026	mg/L			09/28/20 17:04	1
<b>Sulfate</b>	<b>250</b>		5.0	1.9	mg/L			09/29/20 10:41	5

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 10:00	10/07/20 16:29	1
<b>Barium</b>	<b>0.034</b>		0.010	0.0016	mg/L		09/28/20 10:00	10/07/20 16:29	1
<b>Beryllium</b>	<b>0.00018</b>	<b>J</b>	0.0025	0.00018	mg/L		09/28/20 10:00	10/07/20 16:29	1
<b>Boron</b>	<b>1.9</b>		0.080	0.039	mg/L		09/28/20 10:00	10/07/20 16:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 10:00	10/07/20 16:29	1
<b>Calcium</b>	<b>47</b>		0.50	0.13	mg/L		09/28/20 10:00	10/07/20 16:29	1
<b>Chromium</b>	<b>0.015</b>		0.0020	0.0015	mg/L		09/28/20 10:00	10/07/20 16:29	1
<b>Cobalt</b>	<b>0.00016</b>	<b>J</b>	0.0025	0.00013	mg/L		09/28/20 10:00	10/07/20 16:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 10:00	10/07/20 16:29	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 10:00	10/07/20 16:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 10:00	10/07/20 16:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 10:00	10/07/20 16:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 10:00	10/07/20 16:29	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 12:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>450</b>		10	10	mg/L			09/18/20 09:15	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.51</b>				SU			09/15/20 13:55	1



# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-20**

**Lab Sample ID: 180-111111-7**

Date Collected: 09/15/20 15:02

Matrix: Water

Date Received: 09/17/20 09:30

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.32	mg/L			09/28/20 17:24	1
Fluoride	0.15		0.10	0.026	mg/L			09/28/20 17:24	1
Sulfate	200		5.0	1.9	mg/L			09/29/20 11:02	5

**Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00051	J	0.0010	0.00031	mg/L		09/29/20 15:31	10/07/20 17:53	1
Barium	0.024		0.010	0.0016	mg/L		09/29/20 15:31	10/07/20 17:53	1
Beryllium	0.00078	J B	0.0025	0.00018	mg/L		09/29/20 15:31	10/08/20 19:48	1
Boron	1.8		0.080	0.039	mg/L		09/29/20 15:31	10/08/20 19:48	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/29/20 15:31	10/07/20 17:53	1
Calcium	14		0.50	0.13	mg/L		09/29/20 15:31	10/07/20 17:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/29/20 15:31	10/07/20 17:53	1
Cobalt	0.098		0.0025	0.00013	mg/L		09/29/20 15:31	10/07/20 17:53	1
Lead	0.00017	J	0.0010	0.00013	mg/L		09/29/20 15:31	10/07/20 17:53	1
Lithium	0.0037	J	0.0050	0.0034	mg/L		09/29/20 15:31	10/09/20 15:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/29/20 15:31	10/07/20 17:53	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/29/20 15:31	10/07/20 17:53	1
Thallium	0.00028	J	0.0010	0.00015	mg/L		09/29/20 15:31	10/07/20 17:53	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 13:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		10	10	mg/L			09/18/20 09:15	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.30				SU			09/15/20 15:02	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-21**

**Lab Sample ID: 180-111111-8**

Date Collected: 09/15/20 15:40

Matrix: Water

Date Received: 09/17/20 09:30

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.32	mg/L			09/28/20 17:45	1
Fluoride	0.061	J	0.10	0.026	mg/L			09/28/20 17:45	1
Sulfate	130		1.0	0.38	mg/L			09/28/20 17:45	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/29/20 15:31	10/07/20 17:55	1
Barium	0.13		0.010	0.0016	mg/L		09/29/20 15:31	10/07/20 17:55	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/29/20 15:31	10/08/20 19:51	1
Boron	1.2		0.080	0.039	mg/L		09/29/20 15:31	10/08/20 19:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/29/20 15:31	10/07/20 17:55	1
Calcium	38		0.50	0.13	mg/L		09/29/20 15:31	10/07/20 17:55	1
Chromium	0.0020		0.0020	0.0015	mg/L		09/29/20 15:31	10/07/20 17:55	1
Cobalt	0.00022	J	0.0025	0.00013	mg/L		09/29/20 15:31	10/07/20 17:55	1
Lead	0.00022	J	0.0010	0.00013	mg/L		09/29/20 15:31	10/07/20 17:55	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/29/20 15:31	10/09/20 15:11	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/29/20 15:31	10/07/20 17:55	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/29/20 15:31	10/07/20 17:55	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/29/20 15:31	10/07/20 17:55	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 13:01	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	390		10	10	mg/L			09/18/20 09:15	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.10				SU			09/15/20 15:40	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-22**

**Lab Sample ID: 180-111111-9**

Date Collected: 09/15/20 15:20

Matrix: Water

Date Received: 09/17/20 09:30

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>11</b>		1.0	0.32	mg/L			09/28/20 18:06	1
Fluoride	<0.026		0.10	0.026	mg/L			09/28/20 18:06	1
<b>Sulfate</b>	<b>110</b>		1.0	0.38	mg/L			09/28/20 18:06	1

## Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/29/20 15:31	10/07/20 18:13	1
<b>Barium</b>	<b>0.083</b>		0.010	0.0016	mg/L		09/29/20 15:31	10/07/20 18:13	1
<b>Beryllium</b>	<b>0.00033</b>	<b>J B</b>	0.0025	0.00018	mg/L		09/29/20 15:31	10/08/20 20:03	1
<b>Boron</b>	<b>0.50</b>		0.080	0.039	mg/L		09/29/20 15:31	10/08/20 20:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/29/20 15:31	10/07/20 18:13	1
<b>Calcium</b>	<b>28</b>		0.50	0.13	mg/L		09/29/20 15:31	10/07/20 18:13	1
<b>Chromium</b>	<b>0.0025</b>		0.0020	0.0015	mg/L		09/29/20 15:31	10/07/20 18:13	1
<b>Cobalt</b>	<b>0.0014</b>	<b>J</b>	0.0025	0.00013	mg/L		09/29/20 15:31	10/07/20 18:13	1
<b>Lead</b>	<b>0.00019</b>	<b>J</b>	0.0010	0.00013	mg/L		09/29/20 15:31	10/07/20 18:13	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/29/20 15:31	10/09/20 15:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/29/20 15:31	10/07/20 18:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/29/20 15:31	10/07/20 18:13	1
<b>Thallium</b>	<b>0.00038</b>	<b>J</b>	0.0010	0.00015	mg/L		09/29/20 15:31	10/07/20 18:13	1

## Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 13:02	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>250</b>		10	10	mg/L			09/18/20 09:15	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.65</b>				SU			09/15/20 15:20	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-11111-10**

Date Collected: 09/15/20 14:30

Matrix: Water

Date Received: 09/17/20 09:30

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.32	mg/L			09/28/20 16:01	1
Fluoride	0.052	J	0.10	0.026	mg/L			09/28/20 16:01	1
Sulfate	72		1.0	0.38	mg/L			09/28/20 16:01	1

## Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/29/20 15:31	10/07/20 18:15	1
Barium	0.064		0.010	0.0016	mg/L		09/29/20 15:31	10/07/20 18:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/29/20 15:31	10/08/20 20:11	1
Boron	0.38		0.080	0.039	mg/L		09/29/20 15:31	10/08/20 20:11	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/29/20 15:31	10/07/20 18:15	1
Calcium	21		0.50	0.13	mg/L		09/29/20 15:31	10/07/20 18:15	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		09/29/20 15:31	10/07/20 18:15	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/29/20 15:31	10/07/20 18:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/29/20 15:31	10/07/20 18:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/29/20 15:31	10/09/20 15:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/29/20 15:31	10/07/20 18:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/29/20 15:31	10/07/20 18:15	1
Thallium	0.00016	J	0.0010	0.00015	mg/L		09/29/20 15:31	10/07/20 18:15	1

## Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 13:03	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			09/18/20 09:15	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.89				SU			09/15/20 14:30	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: FD-2 (AP)**

**Lab Sample ID: 180-111111-11**

Date Collected: 09/15/20 00:00

Matrix: Water

Date Received: 09/17/20 09:30

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.32	mg/L			09/28/20 14:17	1
Fluoride	<0.026		0.10	0.026	mg/L			09/28/20 14:17	1
Sulfate	990		10	3.8	mg/L			09/28/20 14:38	10

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0043		0.0010	0.00031	mg/L		09/29/20 15:31	10/07/20 18:18	1
Barium	0.019		0.010	0.0016	mg/L		09/29/20 15:31	10/07/20 18:18	1
Beryllium	0.00037	J B	0.0025	0.00018	mg/L		09/29/20 15:31	10/08/20 20:14	1
Boron	6.5		0.080	0.039	mg/L		09/29/20 15:31	10/08/20 20:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/29/20 15:31	10/07/20 18:18	1
Calcium	71		0.50	0.13	mg/L		09/29/20 15:31	10/07/20 18:18	1
Chromium	0.010		0.0020	0.0015	mg/L		09/29/20 15:31	10/07/20 18:18	1
Cobalt	0.12		0.0025	0.00013	mg/L		09/29/20 15:31	10/07/20 18:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/29/20 15:31	10/07/20 18:18	1
Lithium	0.0050		0.0050	0.0034	mg/L		09/29/20 15:31	10/09/20 15:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/29/20 15:31	10/07/20 18:18	1
Selenium	0.0031	J	0.0050	0.0015	mg/L		09/29/20 15:31	10/07/20 18:18	1
Thallium	0.00028	J	0.0010	0.00015	mg/L		09/29/20 15:31	10/07/20 18:18	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J	0.00020	0.00013	mg/L		09/29/20 12:07	09/30/20 14:09	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10	10	mg/L			09/21/20 15:47	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: EB-2 (AP)**

**Lab Sample ID: 180-111111-12**

Date Collected: 09/15/20 13:45

Matrix: Water

Date Received: 09/17/20 09:30

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			09/28/20 12:11	1
Fluoride	<0.026		0.10	0.026	mg/L			09/28/20 12:11	1
Sulfate	<0.38		1.0	0.38	mg/L			09/28/20 12:11	1

## Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/29/20 15:31	10/07/20 18:20	1
Barium	<0.0016		0.010	0.0016	mg/L		09/29/20 15:31	10/07/20 18:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/29/20 15:31	10/08/20 20:16	1
<b>Boron</b>	<b>0.11</b>		0.080	0.039	mg/L		09/29/20 15:31	10/08/20 20:16	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/29/20 15:31	10/07/20 18:20	1
Calcium	<0.13		0.50	0.13	mg/L		09/29/20 15:31	10/07/20 18:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/29/20 15:31	10/07/20 18:20	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/29/20 15:31	10/07/20 18:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/29/20 15:31	10/07/20 18:20	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/29/20 15:31	10/09/20 15:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/29/20 15:31	10/07/20 18:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/29/20 15:31	10/07/20 18:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/29/20 15:31	10/07/20 18:20	1

## Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 12:07	09/30/20 14:10	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/18/20 07:31	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

**Client Sample ID: FB-2 (AP)**

**Lab Sample ID: 180-111111-13**

Date Collected: 09/15/20 09:00

Matrix: Water

Date Received: 09/17/20 09:30

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			09/28/20 12:32	1
Fluoride	<0.026		0.10	0.026	mg/L			09/28/20 12:32	1
Sulfate	<0.38		1.0	0.38	mg/L			09/28/20 12:32	1

### Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/29/20 15:31	10/07/20 18:23	1
Barium	<0.0016		0.010	0.0016	mg/L		09/29/20 15:31	10/07/20 18:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/29/20 15:31	10/08/20 20:19	1
<b>Boron</b>	<b>0.060</b>	<b>J</b>	0.080	0.039	mg/L		09/29/20 15:31	10/08/20 20:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/29/20 15:31	10/07/20 18:23	1
Calcium	<0.13		0.50	0.13	mg/L		09/29/20 15:31	10/07/20 18:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/29/20 15:31	10/07/20 18:23	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/29/20 15:31	10/07/20 18:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/29/20 15:31	10/07/20 18:23	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/29/20 15:31	10/09/20 15:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/29/20 15:31	10/07/20 18:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/29/20 15:31	10/07/20 18:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/29/20 15:31	10/07/20 18:23	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 12:07	09/30/20 14:11	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/18/20 07:31	1

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-331198/6**  
**Matrix: Water**  
**Analysis Batch: 331198**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			09/25/20 06:02	1
Fluoride	<0.026		0.10	0.026	mg/L			09/25/20 06:02	1
Sulfate	<0.38		1.0	0.38	mg/L			09/25/20 06:02	1

**Lab Sample ID: LCS 180-331198/5**  
**Matrix: Water**  
**Analysis Batch: 331198**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.7		mg/L		103	90 - 110
Fluoride	2.50	2.68		mg/L		107	90 - 110
Sulfate	50.0	51.9		mg/L		104	90 - 110

**Lab Sample ID: 180-111040-1 MS**  
**Matrix: Water**  
**Analysis Batch: 331198**

**Client Sample ID: SGWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.1		50.0	54.1		mg/L		104	90 - 110
Fluoride	<0.026		2.50	2.54		mg/L		102	90 - 110
Sulfate	0.58	J	50.0	53.0		mg/L		105	90 - 110

**Lab Sample ID: 180-111040-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 331198**

**Client Sample ID: SGWA-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.1		50.0	55.6		mg/L		107	90 - 110	3	20
Fluoride	<0.026		2.50	2.63		mg/L		105	90 - 110	4	20
Sulfate	0.58	J	50.0	55.7		mg/L		110	90 - 110	5	20

**Lab Sample ID: 180-111040-12 MS**  
**Matrix: Water**  
**Analysis Batch: 331198**

**Client Sample ID: SGWC-10**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10		50.0	60.6		mg/L		100	90 - 110
Fluoride	<0.026		2.50	2.46		mg/L		99	90 - 110
Sulfate	2.2		50.0	52.5		mg/L		100	90 - 110

**Lab Sample ID: 180-111040-12 MSD**  
**Matrix: Water**  
**Analysis Batch: 331198**

**Client Sample ID: SGWC-10**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		50.0	56.8		mg/L		93	90 - 110	6	20
Fluoride	<0.026		2.50	2.36		mg/L		94	90 - 110	4	20
Sulfate	2.2		50.0	49.9		mg/L		95	90 - 110	5	20

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 180-331434/6**  
**Matrix: Water**  
**Analysis Batch: 331434**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.32		1.0	0.32	mg/L			09/28/20 06:30	1
Fluoride	<0.026		0.10	0.026	mg/L			09/28/20 06:30	1
Sulfate	<0.38		1.0	0.38	mg/L			09/28/20 06:30	1

**Lab Sample ID: LCS 180-331434/5**  
**Matrix: Water**  
**Analysis Batch: 331434**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.6		mg/L		97	90 - 110
Fluoride	2.50	2.40		mg/L		96	90 - 110
Sulfate	50.0	46.8		mg/L		94	90 - 110

**Lab Sample ID: 180-111111-10 MS**  
**Matrix: Water**  
**Analysis Batch: 331434**

**Client Sample ID: SGWC-23**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10		50.0	61.5		mg/L		103	90 - 110
Fluoride	0.052	J	2.50	2.69		mg/L		106	90 - 110
Sulfate	72		50.0	121		mg/L		97	90 - 110

**Lab Sample ID: 180-111111-10 MSD**  
**Matrix: Water**  
**Analysis Batch: 331434**

**Client Sample ID: SGWC-23**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		50.0	61.7		mg/L		103	90 - 110	0	20
Fluoride	0.052	J	2.50	2.71		mg/L		106	90 - 110	1	20
Sulfate	72		50.0	122		mg/L		99	90 - 110	1	20

**Lab Sample ID: 180-111132-D-1 MS**  
**Matrix: Water**  
**Analysis Batch: 331434**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.1		50.0	47.8		mg/L		93	90 - 110
Fluoride	0.068	J	2.50	2.46		mg/L		95	90 - 110
Sulfate	8.1		50.0	53.8		mg/L		91	90 - 110

**Lab Sample ID: 180-111132-D-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 331434**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.1		50.0	50.6		mg/L		99	90 - 110	6	20
Fluoride	0.068	J	2.50	2.60		mg/L		101	90 - 110	6	20
Sulfate	8.1		50.0	57.9		mg/L		100	90 - 110	7	20

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 180-331551/6**  
**Matrix: Water**  
**Analysis Batch: 331551**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.38		1.0	0.38	mg/L			09/29/20 07:42	1

**Lab Sample ID: LCS 180-331551/5**  
**Matrix: Water**  
**Analysis Batch: 331551**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.4		mg/L		97	90 - 110

**Lab Sample ID: 180-111241-D-1 MS**  
**Matrix: Water**  
**Analysis Batch: 331551**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10		50.0	59.3		mg/L		98	90 - 110

**Lab Sample ID: 180-111241-D-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 331551**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Sulfate	10		50.0	59.6		mg/L		99	90 - 110	0	20

## Method: EPA 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 180-331484/1-A**  
**Matrix: Water**  
**Analysis Batch: 332374**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331484**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:50	10/05/20 11:31	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/20 09:50	10/05/20 11:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:50	10/05/20 11:31	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:50	10/05/20 11:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:50	10/05/20 11:31	1
Calcium	<0.13		0.50	0.13	mg/L		09/28/20 09:50	10/05/20 11:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:50	10/05/20 11:31	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:50	10/05/20 11:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:50	10/05/20 11:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:50	10/05/20 11:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:50	10/05/20 11:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:50	10/05/20 11:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:50	10/05/20 11:31	1

**Lab Sample ID: LCS 180-331484/2-A**  
**Matrix: Water**  
**Analysis Batch: 332374**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331484**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.993		mg/L		99	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-331484/2-A**  
**Matrix: Water**  
**Analysis Batch: 332374**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331484**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.479		mg/L		96	80 - 120
Boron	1.25	1.18		mg/L		95	80 - 120
Cadmium	0.500	0.506		mg/L		101	80 - 120
Calcium	25.0	26.2		mg/L		105	80 - 120
Chromium	0.500	0.493		mg/L		99	80 - 120
Cobalt	0.500	0.492		mg/L		98	80 - 120
Lead	0.500	0.492		mg/L		98	80 - 120
Lithium	0.500	0.471		mg/L		94	80 - 120
Molybdenum	0.500	0.519		mg/L		104	80 - 120
Selenium	1.00	0.979		mg/L		98	80 - 120
Thallium	1.00	0.963		mg/L		96	80 - 120

**Lab Sample ID: 180-110867-B-10-C MS**  
**Matrix: Water**  
**Analysis Batch: 332374**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00031		1.00	0.991		mg/L		99	75 - 125
Barium	<0.0016		1.00	1.04		mg/L		104	75 - 125
Beryllium	<0.00018		0.500	0.475		mg/L		95	75 - 125
Boron	<0.039		1.25	1.19		mg/L		96	75 - 125
Cadmium	<0.00022		0.500	0.517		mg/L		103	75 - 125
Calcium	<0.13		25.0	26.2		mg/L		105	75 - 125
Chromium	<0.0015		0.500	0.499		mg/L		100	75 - 125
Cobalt	<0.00013		0.500	0.491		mg/L		98	75 - 125
Lead	<0.00013		0.500	0.505		mg/L		101	75 - 125
Lithium	<0.0034		0.500	0.497		mg/L		99	75 - 125
Molybdenum	<0.00061		0.500	0.525		mg/L		105	75 - 125
Selenium	<0.0015		1.00	0.996		mg/L		100	75 - 125
Thallium	<0.00015		1.00	0.994		mg/L		99	75 - 125

**Lab Sample ID: 180-110867-B-10-D MSD**  
**Matrix: Water**  
**Analysis Batch: 332374**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00031		1.00	0.994		mg/L		99	75 - 125	0	20
Barium	<0.0016		1.00	1.02		mg/L		102	75 - 125	2	20
Beryllium	<0.00018		0.500	0.474		mg/L		95	75 - 125	0	20
Boron	<0.039		1.25	1.22		mg/L		98	75 - 125	2	20
Cadmium	<0.00022		0.500	0.510		mg/L		102	75 - 125	1	20
Calcium	<0.13		25.0	26.1		mg/L		105	75 - 125	0	20
Chromium	<0.0015		0.500	0.496		mg/L		99	75 - 125	1	20
Cobalt	<0.00013		0.500	0.491		mg/L		98	75 - 125	0	20
Lead	<0.00013		0.500	0.499		mg/L		100	75 - 125	1	20
Lithium	<0.0034		0.500	0.489		mg/L		98	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.524		mg/L		105	75 - 125	0	20
Selenium	<0.0015		1.00	0.973		mg/L		97	75 - 125	2	20

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-110867-B-10-D MSD**  
**Matrix: Water**  
**Analysis Batch: 332374**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	<0.00015		1.00	0.985		mg/L		98	75 - 125	1	20

**Lab Sample ID: MB 180-331485/1-A**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331485**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/28/20 09:54	10/07/20 15:14	1
Barium	<0.0016		0.010	0.0016	mg/L		09/28/20 09:54	10/07/20 15:14	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/28/20 09:54	10/07/20 15:14	1
Boron	<0.039		0.080	0.039	mg/L		09/28/20 09:54	10/07/20 15:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/28/20 09:54	10/07/20 15:14	1
Calcium	<0.13		0.50	0.13	mg/L		09/28/20 09:54	10/07/20 15:14	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/28/20 09:54	10/07/20 15:14	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/28/20 09:54	10/07/20 15:14	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/28/20 09:54	10/07/20 15:14	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/28/20 09:54	10/07/20 15:14	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/28/20 09:54	10/07/20 15:14	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/28/20 09:54	10/07/20 15:14	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/28/20 09:54	10/07/20 15:14	1

**Lab Sample ID: LCS 180-331485/2-A**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331485**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.980		mg/L		98	80 - 120
Barium	1.00	1.08		mg/L		108	80 - 120
Beryllium	0.500	0.553		mg/L		111	80 - 120
Boron	1.25	1.16		mg/L		93	80 - 120
Cadmium	0.500	0.506		mg/L		101	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Chromium	0.500	0.496		mg/L		99	80 - 120
Cobalt	0.500	0.492		mg/L		98	80 - 120
Lead	0.500	0.510		mg/L		102	80 - 120
Lithium	0.500	0.500		mg/L		100	80 - 120
Molybdenum	0.500	0.522		mg/L		104	80 - 120
Selenium	1.00	0.985		mg/L		98	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

**Lab Sample ID: 180-111110-B-9-B MS**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00031		1.00	0.984		mg/L		98	75 - 125
Barium	0.023		1.00	1.14		mg/L		112	75 - 125
Beryllium	<0.00018		0.500	0.561		mg/L		112	75 - 125
Boron	0.043	J	1.25	1.18		mg/L		91	75 - 125

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-111110-B-9-B MS**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	<0.00022		0.500	0.524		mg/L		105	75 - 125
Calcium	9.7		25.0	36.9		mg/L		109	75 - 125
Chromium	0.0053		0.500	0.518		mg/L		103	75 - 125
Cobalt	<0.00013		0.500	0.487		mg/L		97	75 - 125
Lead	<0.00013		0.500	0.530		mg/L		106	75 - 125
Lithium	<0.0034		0.500	0.521		mg/L		104	75 - 125
Molybdenum	<0.00061		0.500	0.532		mg/L		106	75 - 125
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125
Thallium	<0.00015		1.00	1.03		mg/L		103	75 - 125

**Lab Sample ID: 180-111110-B-9-C MSD**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00031		1.00	0.976		mg/L		98	75 - 125	1	20
Barium	0.023		1.00	1.14		mg/L		112	75 - 125	0	20
Beryllium	<0.00018		0.500	0.558		mg/L		112	75 - 125	1	20
Boron	0.043	J	1.25	1.16		mg/L		89	75 - 125	2	20
Cadmium	<0.00022		0.500	0.520		mg/L		104	75 - 125	1	20
Calcium	9.7		25.0	36.4		mg/L		107	75 - 125	1	20
Chromium	0.0053		0.500	0.509		mg/L		101	75 - 125	2	20
Cobalt	<0.00013		0.500	0.484		mg/L		97	75 - 125	1	20
Lead	<0.00013		0.500	0.504		mg/L		101	75 - 125	5	20
Lithium	<0.0034		0.500	0.511		mg/L		102	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.521		mg/L		104	75 - 125	2	20
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125	0	20
Thallium	<0.00015		1.00	0.981		mg/L		98	75 - 125	4	20

**Lab Sample ID: MB 180-331691/1-A**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/29/20 15:31	10/07/20 17:42	1
Barium	<0.0016		0.010	0.0016	mg/L		09/29/20 15:31	10/07/20 17:42	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/29/20 15:31	10/07/20 17:42	1
Calcium	<0.13		0.50	0.13	mg/L		09/29/20 15:31	10/07/20 17:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/29/20 15:31	10/07/20 17:42	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/29/20 15:31	10/07/20 17:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/29/20 15:31	10/07/20 17:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/29/20 15:31	10/07/20 17:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/29/20 15:31	10/07/20 17:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/29/20 15:31	10/07/20 17:42	1

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-331691/1-A**  
**Matrix: Water**  
**Analysis Batch: 332836**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.000245	J	0.0025	0.00018	mg/L		09/29/20 15:31	10/08/20 19:43	1
Boron	<0.039		0.080	0.039	mg/L		09/29/20 15:31	10/08/20 19:43	1

**Lab Sample ID: MB 180-331691/1-A**  
**Matrix: Water**  
**Analysis Batch: 332939**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		09/29/20 15:31	10/09/20 14:50	1

**Lab Sample ID: LCS 180-331691/2-A**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.958		mg/L		96	80 - 120
Barium	1.00	1.07		mg/L		107	80 - 120
Cadmium	0.500	0.496		mg/L		99	80 - 120
Calcium	25.0	26.4		mg/L		106	80 - 120
Chromium	0.500	0.482		mg/L		96	80 - 120
Cobalt	0.500	0.477		mg/L		95	80 - 120
Lead	0.500	0.488		mg/L		98	80 - 120
Molybdenum	0.500	0.508		mg/L		102	80 - 120
Selenium	1.00	0.946		mg/L		95	80 - 120
Thallium	1.00	0.972		mg/L		97	80 - 120

**Lab Sample ID: LCS 180-331691/2-A**  
**Matrix: Water**  
**Analysis Batch: 332836**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.500	0.519		mg/L		104	80 - 120
Boron	1.25	1.23		mg/L		98	80 - 120

**Lab Sample ID: LCS 180-331691/2-A**  
**Matrix: Water**  
**Analysis Batch: 332939**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.496		mg/L		99	80 - 120

**Lab Sample ID: 180-111111-8 MS**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: SGWC-21**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00031		1.00	0.972		mg/L		97	75 - 125
Barium	0.13		1.00	1.21		mg/L		108	75 - 125
Cadmium	<0.00022		0.500	0.499		mg/L		100	75 - 125
Calcium	38		25.0	64.1		mg/L		104	75 - 125

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-11111-8 MS**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: SGWC-21**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.0020		0.500	0.486		mg/L		97	75 - 125
Cobalt	0.00022	J	0.500	0.479		mg/L		96	75 - 125
Lead	0.00022	J	0.500	0.493		mg/L		99	75 - 125
Molybdenum	<0.00061		0.500	0.518		mg/L		104	75 - 125
Selenium	<0.0015		1.00	0.923		mg/L		92	75 - 125
Thallium	<0.00015		1.00	0.958		mg/L		96	75 - 125

**Lab Sample ID: 180-11111-8 MS**  
**Matrix: Water**  
**Analysis Batch: 332836**

**Client Sample ID: SGWC-21**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	<0.00018		0.500	0.515		mg/L		103	75 - 125
Boron	1.2		1.25	2.37		mg/L		93	75 - 125

**Lab Sample ID: 180-11111-8 MS**  
**Matrix: Water**  
**Analysis Batch: 332939**

**Client Sample ID: SGWC-21**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	<0.0034		0.500	0.498		mg/L		100	75 - 125

**Lab Sample ID: 180-11111-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 332688**

**Client Sample ID: SGWC-21**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00031		1.00	0.976		mg/L		98	75 - 125	0	20
Barium	0.13		1.00	1.20		mg/L		107	75 - 125	1	20
Cadmium	<0.00022		0.500	0.492		mg/L		98	75 - 125	1	20
Calcium	38		25.0	63.7		mg/L		102	75 - 125	1	20
Chromium	0.0020		0.500	0.484		mg/L		96	75 - 125	0	20
Cobalt	0.00022	J	0.500	0.470		mg/L		94	75 - 125	2	20
Lead	0.00022	J	0.500	0.495		mg/L		99	75 - 125	0	20
Molybdenum	<0.00061		0.500	0.515		mg/L		103	75 - 125	1	20
Selenium	<0.0015		1.00	0.950		mg/L		95	75 - 125	3	20
Thallium	<0.00015		1.00	0.964		mg/L		96	75 - 125	1	20

**Lab Sample ID: 180-11111-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 332836**

**Client Sample ID: SGWC-21**  
**Prep Type: Total Recoverable**  
**Prep Batch: 331691**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	<0.00018		0.500	0.531		mg/L		106	75 - 125	3	20
Boron	1.2		1.25	2.45		mg/L		100	75 - 125	3	20

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-111111-8 MSD  
Matrix: Water  
Analysis Batch: 332939

Client Sample ID: SGWC-21  
Prep Type: Total Recoverable  
Prep Batch: 331691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	<0.0034		0.500	0.496		mg/L		99	75 - 125	1	20

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-331590/1-A  
Matrix: Water  
Analysis Batch: 331854

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 331590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:43	09/30/20 12:49	1

Lab Sample ID: LCS 180-331590/2-A  
Matrix: Water  
Analysis Batch: 331854

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 331590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00245		mg/L		98	80 - 120

Lab Sample ID: 180-111111-1 MS  
Matrix: Water  
Analysis Batch: 331854

Client Sample ID: SGWC-14  
Prep Type: Total/NA  
Prep Batch: 331590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00013		0.00100	0.000916		mg/L		92	75 - 125

Lab Sample ID: 180-111111-1 MSD  
Matrix: Water  
Analysis Batch: 331854

Client Sample ID: SGWC-14  
Prep Type: Total/NA  
Prep Batch: 331590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000958		mg/L		96	75 - 125	4	20

Lab Sample ID: MB 180-331593/1-A  
Matrix: Water  
Analysis Batch: 331854

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 331593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 07:46	09/30/20 11:24	1

Lab Sample ID: LCS 180-331593/2-A  
Matrix: Water  
Analysis Batch: 331854

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 331593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00243		mg/L		97	80 - 120



# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: EPA 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 180-111040-1 MS**  
**Matrix: Water**  
**Analysis Batch: 331854**

**Client Sample ID: SGWA-1**  
**Prep Type: Total/NA**  
**Prep Batch: 331593**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00013		0.00100	0.000965		mg/L		97	75 - 125

**Lab Sample ID: 180-111040-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 331854**

**Client Sample ID: SGWA-1**  
**Prep Type: Total/NA**  
**Prep Batch: 331593**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00013		0.00100	0.000975		mg/L		98	75 - 125	1	20

**Lab Sample ID: MB 180-331653/1-A**  
**Matrix: Water**  
**Analysis Batch: 331854**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 331653**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/29/20 11:30	09/30/20 13:45	1

**Lab Sample ID: LCS 180-331653/2-A**  
**Matrix: Water**  
**Analysis Batch: 331854**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 331653**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00257		mg/L		103	80 - 120

**Lab Sample ID: 180-111093-B-1-D MS**  
**Matrix: Water**  
**Analysis Batch: 331854**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 331653**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00013		0.00100	<0.00013		mg/L		0	75 - 125

**Lab Sample ID: 180-111093-B-1-E MSD**  
**Matrix: Water**  
**Analysis Batch: 331854**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 331653**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00013		0.00100	<0.00013		mg/L		0	75 - 125	NC	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-330137/2**  
**Matrix: Water**  
**Analysis Batch: 330137**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/17/20 08:49	1

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-330137/1**  
**Matrix: Water**  
**Analysis Batch: 330137**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	632	626		mg/L		99	80 - 120

**Lab Sample ID: 180-110997-A-3 DU**  
**Matrix: Water**  
**Analysis Batch: 330137**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	420		417		mg/L		0.7	10

**Lab Sample ID: MB 180-330308/2**  
**Matrix: Water**  
**Analysis Batch: 330308**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/18/20 07:26	1

**Lab Sample ID: LCS 180-330308/1**  
**Matrix: Water**  
**Analysis Batch: 330308**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	632	600		mg/L		95	80 - 120

**Lab Sample ID: 180-111040-10 DU**  
**Matrix: Water**  
**Analysis Batch: 330308**

**Client Sample ID: SGWC-8**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	360		376		mg/L		5	10

**Lab Sample ID: 180-111040-18 DU**  
**Matrix: Water**  
**Analysis Batch: 330308**

**Client Sample ID: FD-1 (AP)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	480		461		mg/L		3	10

**Lab Sample ID: MB 180-330322/2**  
**Matrix: Water**  
**Analysis Batch: 330322**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/18/20 07:31	1

**Lab Sample ID: LCS 180-330322/1**  
**Matrix: Water**  
**Analysis Batch: 330322**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	632	610		mg/L		97	80 - 120

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# QC Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: 180-111111-4 DU**  
**Matrix: Water**  
**Analysis Batch: 330322**

**Client Sample ID: SGWC-17**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	440		431		mg/L		0.9	10

**Lab Sample ID: MB 180-330657/2**  
**Matrix: Water**  
**Analysis Batch: 330657**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/21/20 15:45	1

**Lab Sample ID: LCS 180-330657/1**  
**Matrix: Water**  
**Analysis Batch: 330657**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	632	526		mg/L		83	80 - 120

**Lab Sample ID: 180-111012-H-2 DU**  
**Matrix: Water**  
**Analysis Batch: 330657**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	450		444		mg/L		0.7	10

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## HPLC/IC

### Analysis Batch: 331198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-111040-2	SGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-111040-3	SGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-111040-4	SGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-111040-5	SGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-111040-6	SGWA-24	Total/NA	Water	EPA 300.0 R2.1	
180-111040-7	SGWA-25	Total/NA	Water	EPA 300.0 R2.1	
180-111040-8	SGWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-111040-9	SGWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-111040-10	SGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-111040-11	SGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-111040-11	SGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-111040-12	SGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-111040-13	SGWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-111040-14	SGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-111040-15	SGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-111040-16	FB-1 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-111040-17	EB-1 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-111040-18	FD-1 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-111040-18	FD-1 (AP)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-331198/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-331198/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-111040-1 MS	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-111040-1 MSD	SGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-111040-12 MS	SGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-111040-12 MSD	SGWC-10	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 331434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-1	SGWC-14	Total/NA	Water	EPA 300.0 R2.1	
180-111111-2	SGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-111111-3	SGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-111111-4	SGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-111111-5	SGWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-111111-5	SGWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-111111-6	SGWC19	Total/NA	Water	EPA 300.0 R2.1	
180-111111-7	SGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-111111-8	SGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-111111-9	SGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-111111-10	SGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-111111-11	FD-2 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-111111-11	FD-2 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-111111-12	EB-2 (AP)	Total/NA	Water	EPA 300.0 R2.1	
180-111111-13	FB-2 (AP)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-331434/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-331434/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-111111-10 MS	SGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-111111-10 MSD	SGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-111132-D-1 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-111132-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## HPLC/IC

### Analysis Batch: 331551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-6	SGWC19	Total/NA	Water	EPA 300.0 R2.1	
180-111111-7	SGWC-20	Total/NA	Water	EPA 300.0 R2.1	
MB 180-331551/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-331551/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-111241-D-1 MS	Matrix Spike	Total/NA	Water	EPA 300.0 R2.1	
180-111241-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 331484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total Recoverable	Water	3005A	
180-111040-2	SGWA-2	Total Recoverable	Water	3005A	
180-111040-3	SGWA-3	Total Recoverable	Water	3005A	
180-111040-4	SGWA-4	Total Recoverable	Water	3005A	
180-111040-5	SGWA-5	Total Recoverable	Water	3005A	
180-111040-6	SGWA-24	Total Recoverable	Water	3005A	
180-111040-7	SGWA-25	Total Recoverable	Water	3005A	
180-111040-8	SGWC-6	Total Recoverable	Water	3005A	
180-111040-9	SGWC-7	Total Recoverable	Water	3005A	
180-111040-10	SGWC-8	Total Recoverable	Water	3005A	
180-111040-11	SGWC-9	Total Recoverable	Water	3005A	
180-111040-12	SGWC-10	Total Recoverable	Water	3005A	
180-111040-13	SGWC-11	Total Recoverable	Water	3005A	
MB 180-331484/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-331484/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-110867-B-10-C MS	Matrix Spike	Total Recoverable	Water	3005A	
180-110867-B-10-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Prep Batch: 331485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-14	SGWC-12	Total Recoverable	Water	3005A	
180-111040-15	SGWC-13	Total Recoverable	Water	3005A	
180-111040-16	FB-1 (AP)	Total Recoverable	Water	3005A	
180-111040-17	EB-1 (AP)	Total Recoverable	Water	3005A	
180-111040-18	FD-1 (AP)	Total Recoverable	Water	3005A	
180-111111-1	SGWC-14	Total Recoverable	Water	3005A	
180-111111-2	SGWC-15	Total Recoverable	Water	3005A	
180-111111-3	SGWC-16	Total Recoverable	Water	3005A	
180-111111-4	SGWC-17	Total Recoverable	Water	3005A	
180-111111-5	SGWC-18	Total Recoverable	Water	3005A	
180-111111-6	SGWC19	Total Recoverable	Water	3005A	
MB 180-331485/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-331485/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-111110-B-9-B MS	Matrix Spike	Total Recoverable	Water	3005A	
180-111110-B-9-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

### Prep Batch: 331590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-1	SGWC-14	Total/NA	Water	7470A	
180-111111-2	SGWC-15	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Metals (Continued)

### Prep Batch: 331590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-3	SGWC-16	Total/NA	Water	7470A	
180-111111-4	SGWC-17	Total/NA	Water	7470A	
180-111111-5	SGWC-18	Total/NA	Water	7470A	
180-111111-6	SGWC-19	Total/NA	Water	7470A	
180-111111-7	SGWC-20	Total/NA	Water	7470A	
180-111111-8	SGWC-21	Total/NA	Water	7470A	
180-111111-9	SGWC-22	Total/NA	Water	7470A	
180-111111-10	SGWC-23	Total/NA	Water	7470A	
MB 180-331590/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-331590/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-111111-1 MS	SGWC-14	Total/NA	Water	7470A	
180-111111-1 MSD	SGWC-14	Total/NA	Water	7470A	

### Prep Batch: 331593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total/NA	Water	7470A	
180-111040-2	SGWA-2	Total/NA	Water	7470A	
180-111040-3	SGWA-3	Total/NA	Water	7470A	
180-111040-4	SGWA-4	Total/NA	Water	7470A	
180-111040-5	SGWA-5	Total/NA	Water	7470A	
180-111040-6	SGWA-24	Total/NA	Water	7470A	
180-111040-7	SGWA-25	Total/NA	Water	7470A	
180-111040-8	SGWC-6	Total/NA	Water	7470A	
180-111040-9	SGWC-7	Total/NA	Water	7470A	
180-111040-10	SGWC-8	Total/NA	Water	7470A	
180-111040-11	SGWC-9	Total/NA	Water	7470A	
180-111040-12	SGWC-10	Total/NA	Water	7470A	
180-111040-13	SGWC-11	Total/NA	Water	7470A	
180-111040-14	SGWC-12	Total/NA	Water	7470A	
180-111040-15	SGWC-13	Total/NA	Water	7470A	
180-111040-16	FB-1 (AP)	Total/NA	Water	7470A	
180-111040-17	EB-1 (AP)	Total/NA	Water	7470A	
180-111040-18	FD-1 (AP)	Total/NA	Water	7470A	
MB 180-331593/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-331593/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-111040-1 MS	SGWA-1	Total/NA	Water	7470A	
180-111040-1 MSD	SGWA-1	Total/NA	Water	7470A	

### Prep Batch: 331653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-11	FD-2 (AP)	Total/NA	Water	7470A	
180-111111-12	EB-2 (AP)	Total/NA	Water	7470A	
180-111111-13	FB-2 (AP)	Total/NA	Water	7470A	
MB 180-331653/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-331653/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-111093-B-1-D MS	Matrix Spike	Total/NA	Water	7470A	
180-111093-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

### Prep Batch: 331691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-7	SGWC-20	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Metals (Continued)

### Prep Batch: 331691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-8	SGWC-21	Total Recoverable	Water	3005A	
180-111111-9	SGWC-22	Total Recoverable	Water	3005A	
180-111111-10	SGWC-23	Total Recoverable	Water	3005A	
180-111111-11	FD-2 (AP)	Total Recoverable	Water	3005A	
180-111111-12	EB-2 (AP)	Total Recoverable	Water	3005A	
180-111111-13	FB-2 (AP)	Total Recoverable	Water	3005A	
MB 180-331691/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-331691/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-111111-8 MS	SGWC-21	Total Recoverable	Water	3005A	
180-111111-8 MSD	SGWC-21	Total Recoverable	Water	3005A	

### Analysis Batch: 331854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total/NA	Water	EPA 7470A	331593
180-111040-2	SGWA-2	Total/NA	Water	EPA 7470A	331593
180-111040-3	SGWA-3	Total/NA	Water	EPA 7470A	331593
180-111040-4	SGWA-4	Total/NA	Water	EPA 7470A	331593
180-111040-5	SGWA-5	Total/NA	Water	EPA 7470A	331593
180-111040-6	SGWA-24	Total/NA	Water	EPA 7470A	331593
180-111040-7	SGWA-25	Total/NA	Water	EPA 7470A	331593
180-111040-8	SGWC-6	Total/NA	Water	EPA 7470A	331593
180-111040-9	SGWC-7	Total/NA	Water	EPA 7470A	331593
180-111040-10	SGWC-8	Total/NA	Water	EPA 7470A	331593
180-111040-11	SGWC-9	Total/NA	Water	EPA 7470A	331593
180-111040-12	SGWC-10	Total/NA	Water	EPA 7470A	331593
180-111040-13	SGWC-11	Total/NA	Water	EPA 7470A	331593
180-111040-14	SGWC-12	Total/NA	Water	EPA 7470A	331593
180-111040-15	SGWC-13	Total/NA	Water	EPA 7470A	331593
180-111040-16	FB-1 (AP)	Total/NA	Water	EPA 7470A	331593
180-111040-17	EB-1 (AP)	Total/NA	Water	EPA 7470A	331593
180-111040-18	FD-1 (AP)	Total/NA	Water	EPA 7470A	331593
180-111111-1	SGWC-14	Total/NA	Water	EPA 7470A	331590
180-111111-2	SGWC-15	Total/NA	Water	EPA 7470A	331590
180-111111-3	SGWC-16	Total/NA	Water	EPA 7470A	331590
180-111111-4	SGWC-17	Total/NA	Water	EPA 7470A	331590
180-111111-5	SGWC-18	Total/NA	Water	EPA 7470A	331590
180-111111-6	SGWC-19	Total/NA	Water	EPA 7470A	331590
180-111111-7	SGWC-20	Total/NA	Water	EPA 7470A	331590
180-111111-8	SGWC-21	Total/NA	Water	EPA 7470A	331590
180-111111-9	SGWC-22	Total/NA	Water	EPA 7470A	331590
180-111111-10	SGWC-23	Total/NA	Water	EPA 7470A	331590
180-111111-11	FD-2 (AP)	Total/NA	Water	EPA 7470A	331653
180-111111-12	EB-2 (AP)	Total/NA	Water	EPA 7470A	331653
180-111111-13	FB-2 (AP)	Total/NA	Water	EPA 7470A	331653
MB 180-331590/1-A	Method Blank	Total/NA	Water	EPA 7470A	331590
MB 180-331593/1-A	Method Blank	Total/NA	Water	EPA 7470A	331593
MB 180-331653/1-A	Method Blank	Total/NA	Water	EPA 7470A	331653
LCS 180-331590/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	331590
LCS 180-331593/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	331593
LCS 180-331653/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	331653
180-111040-1 MS	SGWA-1	Total/NA	Water	EPA 7470A	331593

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Metals (Continued)

### Analysis Batch: 331854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1 MSD	SGWA-1	Total/NA	Water	EPA 7470A	331593
180-111093-B-1-D MS	Matrix Spike	Total/NA	Water	EPA 7470A	331653
180-111093-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 7470A	331653
180-111111-1 MS	SGWC-14	Total/NA	Water	EPA 7470A	331590
180-111111-1 MSD	SGWC-14	Total/NA	Water	EPA 7470A	331590

### Analysis Batch: 332374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total Recoverable	Water	EPA 6020B	331484
180-111040-2	SGWA-2	Total Recoverable	Water	EPA 6020B	331484
180-111040-3	SGWA-3	Total Recoverable	Water	EPA 6020B	331484
180-111040-4	SGWA-4	Total Recoverable	Water	EPA 6020B	331484
180-111040-5	SGWA-5	Total Recoverable	Water	EPA 6020B	331484
180-111040-6	SGWA-24	Total Recoverable	Water	EPA 6020B	331484
180-111040-7	SGWA-25	Total Recoverable	Water	EPA 6020B	331484
180-111040-8	SGWC-6	Total Recoverable	Water	EPA 6020B	331484
180-111040-9	SGWC-7	Total Recoverable	Water	EPA 6020B	331484
180-111040-10	SGWC-8	Total Recoverable	Water	EPA 6020B	331484
180-111040-11	SGWC-9	Total Recoverable	Water	EPA 6020B	331484
180-111040-12	SGWC-10	Total Recoverable	Water	EPA 6020B	331484
180-111040-13	SGWC-11	Total Recoverable	Water	EPA 6020B	331484
MB 180-331484/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	331484
LCS 180-331484/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	331484
180-110867-B-10-C MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	331484
180-110867-B-10-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	331484

### Analysis Batch: 332688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-14	SGWC-12	Total Recoverable	Water	EPA 6020B	331485
180-111040-15	SGWC-13	Total Recoverable	Water	EPA 6020B	331485
180-111040-16	FB-1 (AP)	Total Recoverable	Water	EPA 6020B	331485
180-111040-17	EB-1 (AP)	Total Recoverable	Water	EPA 6020B	331485
180-111040-18	FD-1 (AP)	Total Recoverable	Water	EPA 6020B	331485
180-111111-1	SGWC-14	Total Recoverable	Water	EPA 6020B	331485
180-111111-2	SGWC-15	Total Recoverable	Water	EPA 6020B	331485
180-111111-3	SGWC-16	Total Recoverable	Water	EPA 6020B	331485
180-111111-4	SGWC-17	Total Recoverable	Water	EPA 6020B	331485
180-111111-5	SGWC-18	Total Recoverable	Water	EPA 6020B	331485
180-111111-6	SGWC-19	Total Recoverable	Water	EPA 6020B	331485
180-111111-7	SGWC-20	Total Recoverable	Water	EPA 6020B	331691
180-111111-8	SGWC-21	Total Recoverable	Water	EPA 6020B	331691
180-111111-9	SGWC-22	Total Recoverable	Water	EPA 6020B	331691
180-111111-10	SGWC-23	Total Recoverable	Water	EPA 6020B	331691
180-111111-11	FD-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
180-111111-12	EB-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
180-111111-13	FB-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
MB 180-331485/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	331485
MB 180-331691/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	331691
LCS 180-331485/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	331485
LCS 180-331691/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	331691
180-111110-B-9-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	331485

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Metals (Continued)

### Analysis Batch: 332688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111110-B-9-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	331485
180-111111-8 MS	SGWC-21	Total Recoverable	Water	EPA 6020B	331691
180-111111-8 MSD	SGWC-21	Total Recoverable	Water	EPA 6020B	331691

### Analysis Batch: 332836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-7	SGWC-20	Total Recoverable	Water	EPA 6020B	331691
180-111111-8	SGWC-21	Total Recoverable	Water	EPA 6020B	331691
180-111111-9	SGWC-22	Total Recoverable	Water	EPA 6020B	331691
180-111111-10	SGWC-23	Total Recoverable	Water	EPA 6020B	331691
180-111111-11	FD-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
180-111111-12	EB-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
180-111111-13	FB-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
MB 180-331691/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	331691
LCS 180-331691/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	331691
180-111111-8 MS	SGWC-21	Total Recoverable	Water	EPA 6020B	331691
180-111111-8 MSD	SGWC-21	Total Recoverable	Water	EPA 6020B	331691

### Analysis Batch: 332939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-7	SGWC-20	Total Recoverable	Water	EPA 6020B	331691
180-111111-8	SGWC-21	Total Recoverable	Water	EPA 6020B	331691
180-111111-9	SGWC-22	Total Recoverable	Water	EPA 6020B	331691
180-111111-10	SGWC-23	Total Recoverable	Water	EPA 6020B	331691
180-111111-11	FD-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
180-111111-12	EB-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
180-111111-13	FB-2 (AP)	Total Recoverable	Water	EPA 6020B	331691
MB 180-331691/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	331691
LCS 180-331691/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	331691
180-111111-8 MS	SGWC-21	Total Recoverable	Water	EPA 6020B	331691
180-111111-8 MSD	SGWC-21	Total Recoverable	Water	EPA 6020B	331691

## General Chemistry

### Analysis Batch: 330137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total/NA	Water	SM 2540C	
MB 180-330137/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-330137/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-110997-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

### Analysis Batch: 330308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-2	SGWA-2	Total/NA	Water	SM 2540C	
180-111040-3	SGWA-3	Total/NA	Water	SM 2540C	
180-111040-4	SGWA-4	Total/NA	Water	SM 2540C	
180-111040-5	SGWA-5	Total/NA	Water	SM 2540C	
180-111040-6	SGWA-24	Total/NA	Water	SM 2540C	
180-111040-7	SGWA-25	Total/NA	Water	SM 2540C	
180-111040-8	SGWC-6	Total/NA	Water	SM 2540C	
180-111040-9	SGWC-7	Total/NA	Water	SM 2540C	

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## General Chemistry (Continued)

### Analysis Batch: 330308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-10	SGWC-8	Total/NA	Water	SM 2540C	
180-111040-11	SGWC-9	Total/NA	Water	SM 2540C	
180-111040-12	SGWC-10	Total/NA	Water	SM 2540C	
180-111040-13	SGWC-11	Total/NA	Water	SM 2540C	
180-111040-14	SGWC-12	Total/NA	Water	SM 2540C	
180-111040-15	SGWC-13	Total/NA	Water	SM 2540C	
180-111040-16	FB-1 (AP)	Total/NA	Water	SM 2540C	
180-111040-17	EB-1 (AP)	Total/NA	Water	SM 2540C	
180-111040-18	FD-1 (AP)	Total/NA	Water	SM 2540C	
MB 180-330308/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-330308/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-111040-10 DU	SGWC-8	Total/NA	Water	SM 2540C	
180-111040-18 DU	FD-1 (AP)	Total/NA	Water	SM 2540C	

### Analysis Batch: 330322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-1	SGWC-14	Total/NA	Water	SM 2540C	
180-111111-2	SGWC-15	Total/NA	Water	SM 2540C	
180-111111-3	SGWC-16	Total/NA	Water	SM 2540C	
180-111111-4	SGWC-17	Total/NA	Water	SM 2540C	
180-111111-6	SGWC-19	Total/NA	Water	SM 2540C	
180-111111-7	SGWC-20	Total/NA	Water	SM 2540C	
180-111111-8	SGWC-21	Total/NA	Water	SM 2540C	
180-111111-9	SGWC-22	Total/NA	Water	SM 2540C	
180-111111-10	SGWC-23	Total/NA	Water	SM 2540C	
180-111111-12	EB-2 (AP)	Total/NA	Water	SM 2540C	
180-111111-13	FB-2 (AP)	Total/NA	Water	SM 2540C	
MB 180-330322/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-330322/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-111111-4 DU	SGWC-17	Total/NA	Water	SM 2540C	

### Analysis Batch: 330657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-5	SGWC-18	Total/NA	Water	SM 2540C	
180-111111-11	FD-2 (AP)	Total/NA	Water	SM 2540C	
MB 180-330657/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-330657/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-111012-H-2 DU	Duplicate	Total/NA	Water	SM 2540C	

## Field Service / Mobile Lab

### Analysis Batch: 330379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total/NA	Water	Field Sampling	
180-111040-2	SGWA-2	Total/NA	Water	Field Sampling	
180-111040-3	SGWA-3	Total/NA	Water	Field Sampling	
180-111040-4	SGWA-4	Total/NA	Water	Field Sampling	
180-111040-5	SGWA-5	Total/NA	Water	Field Sampling	
180-111040-6	SGWA-24	Total/NA	Water	Field Sampling	
180-111040-7	SGWA-25	Total/NA	Water	Field Sampling	
180-111040-8	SGWC-6	Total/NA	Water	Field Sampling	

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# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-1

## Field Service / Mobile Lab (Continued)

### Analysis Batch: 330379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-9	SGWC-7	Total/NA	Water	Field Sampling	
180-111040-10	SGWC-8	Total/NA	Water	Field Sampling	
180-111040-11	SGWC-9	Total/NA	Water	Field Sampling	
180-111040-12	SGWC-10	Total/NA	Water	Field Sampling	
180-111040-13	SGWC-11	Total/NA	Water	Field Sampling	
180-111040-14	SGWC-12	Total/NA	Water	Field Sampling	
180-111040-15	SGWC-13	Total/NA	Water	Field Sampling	
180-111111-1	SGWC-14	Total/NA	Water	Field Sampling	
180-111111-2	SGWC-15	Total/NA	Water	Field Sampling	
180-111111-3	SGWC-16	Total/NA	Water	Field Sampling	
180-111111-4	SGWC-17	Total/NA	Water	Field Sampling	
180-111111-5	SGWC-18	Total/NA	Water	Field Sampling	
180-111111-6	SGWC-19	Total/NA	Water	Field Sampling	
180-111111-7	SGWC-20	Total/NA	Water	Field Sampling	
180-111111-8	SGWC-21	Total/NA	Water	Field Sampling	
180-111111-9	SGWC-22	Total/NA	Water	Field Sampling	
180-111111-10	SGWC-23	Total/NA	Water	Field Sampling	

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# 244- ATLANTA Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Programs:  Air  SWD  RCRA  Other

Client Contact: **John Abraham**  
Southern Company  
241 High Street Blvd SE, 30303  
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Project Name: Plant Scheme Ash Pond  
Site: Georgia  
PO # 1807884

Project Manager: **Sam Frazil**  
Toll Free: 248-338-5445

Analysis Turnaround Time:  
 Customer term  Standard term  
 1-2 weeks  
 1 week  
 3 days  
 1 day

Date: 8/18/2020  
Carrier:   
CSC No:   
Sampler:   
180-111040 Chain of Custody

Site Contact: <b>Karin Mikaura</b>	Lab Contact: <b>Venencia Borbot</b>
------------------------------------	-------------------------------------

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Containers	Analysis				Sample Specific Notes
						PH	Temp	DO	ORP	
SO200-1	8/14/2020	11:36	G	Water	3	X	X	X	X	pH = 8.11
SO200-2	8/19/2020	12:31	G	Water	3	X	X	X	X	pH = 8.73
SO200-3	8/19/2020	12:29	G	Water	3	X	X	X	X	pH = 8.84
SO200-4	8/17/2020	11:00	G	Water	3	X	X	X	X	pH = 8.40
SO200-5	8/19/2020	11:25	G	Water	3	X	X	X	X	pH = 8.92
SO200-24	8/19/2020	12:45	G	Water	3	X	X	X	X	pH = 8.92
SO200-25	8/20/2020	14:00	G	Water	3	X	X	X	X	pH = 8.98
SO200-6	8/21/2020	13:40	G	Water	3	X	X	X	X	pH = 8.29
SO200-7	8/22/2020	14:38	G	Water	3	X	X	X	X	pH = 8.91
SO200-8	8/23/2020	12:45	G	Water	3	X	X	X	X	pH = 8.52
SO200-9	8/24/2020	15:00	G	Water	3	X	X	X	X	pH = 8.33
SO200-10	8/25/2020	16:00	G	Water	3	X	X	X	X	pH = 8.51

Preservation Used:  Ice,  HCC,  H2SO4,  HNO3,  Other  
Possible Hazard Identification:  
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Analyzed  Dispatched  Disinfectant  Other

Sample Disposal:  Return to Lab  Destroy in Lab  Return to Client  Destroy in Client

Custody Seal Inact:  Yes  No

Requested by: **Blayne Cook**  
Company: **915-20**  
Date: **9-15-20**

Company: **Gold**  
Date: **9-15-20**  
Company: **Blayne Cook**  
Date: **9-15-20**  
Company: **915-20**  
Date: **9-16-20**

Signature: **Blayne Cook**  
Signature: **Blayne Cook**  
Signature: **Blayne Cook**

Chain of Custody: **Blayne Cook**  
Date: **9-15-20**  
Signature: **Blayne Cook**  
Date: **9-16-20**



Client Contact  
Mjo Abraham  
Southern Company  
241 High Street Blvd SE, B10149  
Atlanta, GA 30309

Project Manager: Dives Fred  
Tel/Fax: 248-534-4448

Site Contact: Kevin Mikura  
Lab Contact: Veronica Bortol  
Date: 8/18/20  
Carrier

COC No: 1 of 1 COCs

Analysis Turnaround Time  
 Overnight Turn  
 1-2 Business Days  
 3-5 Business Days  
 7-10 Business Days  
 Other

MSL Effluent Test (Below) \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

Project Name: Plant Square Ash Pond  
 State: Georgia  
 P.O. #: 150-0484

Sample Identification	Sample Date	Sample Time	Sample Type (pH, Temp, etc.)	Matrix	# of Cust.	Sample Specifics/Notes
SOHC-14	8/18/2020	9:28	Water	Water	3	pH = 8.01
SOHC-15	8/18/2020	10:40	Water	Water	3	pH = 4.87
SOHC-16	8/18/2020	11:50	Water	Water	3	pH = 5.58
SOHC-17	8/18/2020	13:45	Water	Water	3	pH = 8.42
SOHC-18	8/18/2020	15:05	Water	Water	3	pH = 4.84
SOHC-19	8/18/2020	15:55	Water	Water	3	pH = 5.51
SOHC-20	8/18/2020	15:00	Water	Water	3	pH = 4.30
SOHC-21	8/18/2020	15:40	Water	Water	3	pH = 8.10
SOHC-22	8/18/2020	15:20	Water	Water	4	Extra sodium; pH = 5.60
SOHC-23	8/18/2020	14:30	Water	Water	3	pH = 5.89
FD-1 (MF)	-	-	Water	Water	3	
EB-2 (MF)	8/18/2020	13:45	Water	Water	3	
FB-2 (MF)	8/18/2020	8:00	Water	Water	3	

Preservation Used: In Ice, In HCl, In HNO3, In H2SO4, In H3PO4, In Other \_\_\_\_\_

Freeze Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

No Hazard  
 Hazardous  
 Unknown

Special Instructions/COG Requirements & Comments:

Sample Disposal: (A fee may be assessed if samples are retained longer than 1 month)

Return to Client  
 Return to Lab  
 Destroy by \_\_\_\_\_ Months

Custody Seal No.: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_



Environment  
TestAmerica

ORDER NUMBER (979) 999-9999  
SHIP TO: TESTAMERICA  
BILL TO: TESTAMERICA  
C/O: PRODUCTION SERVICE  
C/O: PRODUCTION SERVICE  
C/O: PRODUCTION SERVICE  
C/O: PRODUCTION SERVICE  
C/O: PRODUCTION SERVICE

SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTS  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REP: SOUTHERN CO

REP: SOUTHERN CO

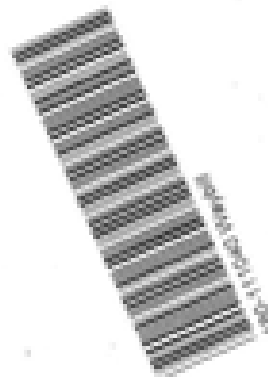
1 of 4  
MAY# 1516 9324 9920  
MAY# 1516 9324 9910

NA AGCA

Uncorrected temp  
Thermometer ID

2.6 °C  
19

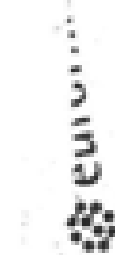
CF  Initials



EL 10h  
6 SEP  
OVERN

1

PA-US



Environment  
TestAmerica

ORDER NUMBER (979) 999-9999  
SHIP TO: TESTAMERICA  
BILL TO: TESTAMERICA  
C/O: PRODUCTION SERVICE  
C/O: PRODUCTION SERVICE  
C/O: PRODUCTION SERVICE  
C/O: PRODUCTION SERVICE  
C/O: PRODUCTION SERVICE

SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

REP: SOUTHERN CO

REP: SOUTHERN CO

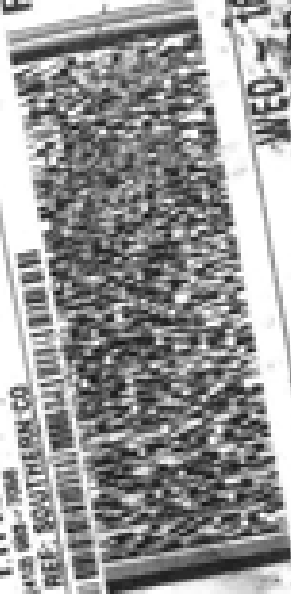
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MAY# 1516 9324 9910  
MAY# 1516 9324 9910

NA AGCA

Uncorrected temp  
Thermometer ID

2.1 °C  
14

CF  Initials



WED - 16 SEP 3:00P  
STANDARD OVERNIGHT  
15238  
PIT

1 of 4  
MAY# 1516 9324 9910  
MAY# 1516 9324 9910

NA AGCA

Uncorrected temp  
Thermometer ID

2.1 °C  
14

CF  Initials



- 1
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- 12
- 13



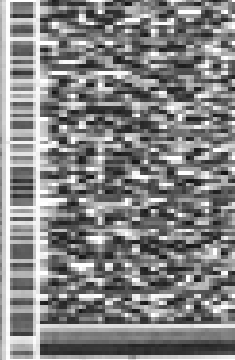
Environment Testing  
TestAmerica

ORDER 151174 (878) 888-8881  
EUROFINS TESTING  
3000 ROXBOROUGH DRIVE  
SUITE C-10  
ROXBOROUGH, PA 15083  
UNITED STATES OF AMERICA

SHIP DATE: SEP20  
SHIP TO: MAIL-SAFES408  
BILL RECIPIENT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

(412) 888-7888  
REF: SOUTHERN CO



FedEx  
Express



3 of 4  
MON 1516 9324 9931  
Metric# 1010 9324 9910

WED - 16 SEP 3:00P  
STANDARD OVERNIGHT

NA AGCA

15238  
PA-US PLT

PLT-UNUSABLE effective 12/01/13

Uncorrected temp  
Thermometer ID

1.8 °C  
14

CF 0 Initials JS



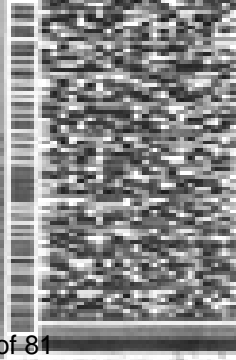
Environment Testing  
TestAmerica

ORDER 151174 (878) 888-8881  
EUROFINS TESTING  
3000 ROXBOROUGH DRIVE  
SUITE C-10  
ROXBOROUGH, PA 15083  
UNITED STATES OF AMERICA

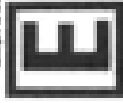
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SHIP TO: MAIL-SAFES408  
BILL RECIPIENT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

(412) 888-7888  
REF: SOUTHERN CO



FedEx  
Express



4 of 4  
MON 1516 9324 9942  
Metric# 1010 9324 9910

WED - 16 SEP 3:00P  
STANDARD OVERNIGHT

NA AGCA

15238  
PA-US PLT



- 1
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Environment Testing  
TestAmerica

SHIP DATE: 15 SEP 2020  
ACTIVITY: 1516 0325 0188  
CART: 1516 0325 0188

BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
REF: SOUTHERN CO

SHIP DATE: 15 SEP 2020  
ACTIVITY: 1516 0325 0188  
CART: 1516 0325 0188

BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
REF: SOUTHERN CO

SHIP DATE: 15 SEP 2020  
ACTIVITY: 1516 0325 0188  
CART: 1516 0325 0188

THU - 17 SEP 2020  
STANDARD OVERNIGHT

2 of 4  
1516 9325 0188  
1516 0325 0177

NA AGCA

Uncorrected temp: 1.8 °C  
Thermometer ID: 14  
CF: 0 Initials: JL

SHIP DATE: 15 SEP 2020  
ACTIVITY: 1516 0325 0188  
CART: 1516 0325 0188

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
REF: SOUTHERN CO

SHIP DATE: 15 SEP 2020  
ACTIVITY: 1516 0325 0188  
CART: 1516 0325 0188

BILL RECEIPT

TO SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238  
REF: SOUTHERN CO

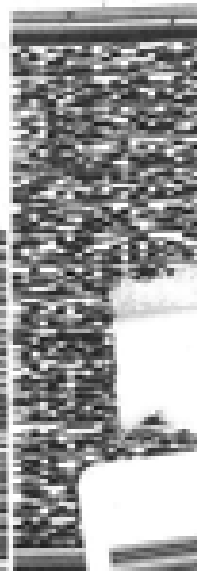
SHIP DATE: 15 SEP 2020  
ACTIVITY: 1516 0325 0188  
CART: 1516 0325 0188

THU - 17 SEP 2020  
STANDARD OVERNIGHT

1516 9325 0188  
1516 0325 0177

NA AGCA

Uncorrected temp: 3.8 °C  
Thermometer ID: 14  
CF: 0 Initials: JL



THU - 17 SEP 2020  
STANDARD OVERNIGHT

15238  
PA-US PIT



- 1
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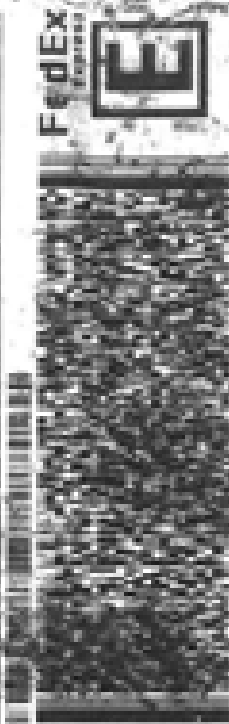
ORIGIN (PIT) LYN (CENT) 152338  
ACTIVITY: 17 SEP 2018  
COST: 00011125000000

1516 8325 0177  
EUROFINS TESTAMERICA  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

SHIP DATE: 18 SEP 2018  
BILL RECEIPT

TO: SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

1516 8325 0177  
RDC SERVICES CO



1 of 4  
THU - 17 SEP 3:00P  
STANDARD OVERNIGHT

15238  
PA-08  
PIT

NA AGCA

4.0 °C



Uncorrected Temp  
Thermometer ID  
Initials



TO: SAMPLE RECEIVING  
EUROFINS TESTAMERICA PITTSBURGH  
301 ALPHA DR.  
RIDC PARK  
PITTSBURGH PA 15238

1516 8325 0177  
RDC SERVICES CO



1 of 4  
THU - 17 SEP 3:00P  
STANDARD OVERNIGHT

15238  
PA-08  
PIT

NA AGCA

3.2 °C



Uncorrected Temp  
Thermometer ID  
Initials



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111040-1

**Login Number: 111040**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111040-1

**Login Number: 111111**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-111040-2

Client Project/Site: Plant Scherer Ash Pond

For:

Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
12/28/2020 12:04:08 PM

Shali Brown, Project Manager II  
(615)301-5031  
[Shali.Brown@Eurofinset.com](mailto:Shali.Brown@Eurofinset.com)

### LINKS

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results through  
**Total Access**

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Job ID: 180-111040-2**

**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

**Job Narrative  
180-111040-2**

### Comments

No additional comments.

### Receipt

The samples were received on 9/16/2020 9:45 AM and 9/17/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 1.8° C, 1.8° C, 1.9° C, 2.1° C, 2.6° C, 3.2° C, 3.8° C and 4.0° C.

### Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): SGWA-1 (180-111040-1), SGWA-2 (180-111040-2), SGWA-3 (180-111040-3), SGWA-4 (180-111040-4), SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), SGWC-6 (180-111040-8), SGWC-7 (180-111040-9), SGWC-8 (180-111040-10), SGWC-9 (180-111040-11), SGWC-10 (180-111040-12), SGWC-11 (180-111040-13), SGWC-12 (180-111040-14), SGWC-13 (180-111040-15), FB-1 (AP) (180-111040-16), EB-1 (AP) (180-111040-17) and FD-1 (AP) (180-111040-18). The container labels all have a sample collection date of 9/14/20; while the COC has different dates with some in the future. The client was contacted and confirmed the collection for all samples is 9/14/20.

The container label for the 500 ml container for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWA-24 (180-111040-6). The container labels list SGWA-5, while the COC lists SGWA-24. The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWA-2 (180-111040-2). The container labels list SGWA-1, while the COC lists SGWA-2. The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWA-3 (180-111040-3). The container labels list SGWA-4, while the COC lists SGWA-3. The id on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWC-8 (180-111040-10). The container labels list a sample collection time of 14:00, while the COC lists 12:45. The time on the COC was used.

The container label for the nitric half gallon container for the following sample did not match the information listed on the Chain-of-Custody (COC): SGWC-10 (180-111040-12). The container label does not have the id on the label; however the ID was on the TDS and Nitric containers and all the containers were in the same bag.

### RAD

Methods 903.0, 9315: 900 Prep batch: 160-483490

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SGWC-14 (180-111111-1), SGWC-15 (180-111111-2), SGWC-16 (180-111111-3), SGWC-17 (180-111111-4), SGWC-18 (180-111111-5), SGWC-19 (180-111111-6), SGWC-20 (180-111111-7), SGWC-21 (180-111111-8), SGWC-22 (180-111111-9), SGWC-23 (180-111111-10), FD-2 (AP) (180-111111-11), EB-2 (AP) (180-111111-12) and FB-2 (AP) (180-111111-13)

Method 9315: Ra226 Prep Batch: 160-486631

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. GWA-1 (180-111040-1), SGWA-2 (180-111040-2), SGWA-3 (180-111040-3), SGWA-4 (180-111040-4), SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), SGWC-6 (180-111040-8), SGWC-7 (180-111040-9), SGWC-9 (180-111040-11), SGWC-10 (180-111040-12), SGWC-11 (180-111040-13), SGWC-12 (180-111040-14), SGWC-13 (180-111040-15), FB-1 (AP) (180-111040-16), EB-1 (AP) (180-111040-17) and FD-1 (AP) (180-111040-18)

Method 9315: Ra226 Prep Batch: 160-486631

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is

# Case Narrative

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Job ID: 180-111040-2 (Continued)

### Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. GWC-8 (180-111040-10)

Methods 904.0, 9320: Radium-228 prep batch 160-483498:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SGWC-14 (180-111111-1), SGWC-15 (180-111111-2), SGWC-16 (180-111111-3), SGWC-17 (180-111111-4), SGWC-18 (180-111111-5), SGWC-19 (180-111111-6), SGWC-20 (180-111111-7), SGWC-21 (180-111111-8), SGWC-22 (180-111111-9), SGWC-23 (180-111111-10), FD-2 (AP) (180-111111-11), EB-2 (AP) (180-111111-12), FB-2 (AP) (180-111111-13), (LCS 160-483498/1-A), (LCSD 160-483498/2-A) and (MB 160-483498/20-A)

Method 9320: Radium-228 prep batch 160-486546:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SGWA-1 (180-111040-1), SGWA-2 (180-111040-2), SGWA-3 (180-111040-3), SGWA-4

(180-111040-4), SGWC-6 (180-111040-8), SGWC-7 (180-111040-9), SGWC-8 (180-111040-10), SGWC-9 (180-111040-11), SGWC-10 (180-111040-12), SGWC-11 (180-111040-13), SGWC-12 (180-111040-14), SGWC-13 (180-111040-15), FB-1 (AP) (180-111040-16), EB-1 (AP) (180-111040-17), FD-1 (AP) (180-111040-18), (LCS 160-486546/1-A), (LCSD 160-486546/2-A) and (MB 160-486546/21-A)

Method 9320: Radium-228 prep batch 160-490779:

The LCS recovered at 69%/62% for Ra-228. The limits in our LIMS system at 75-125% reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of 61-138% per method requirements. Although there is a qualifier, the LCS passes. No further action is required. (LCS 160-490779/1-A) and (LCSD 160-490779/2-A)

Method 9320: Radium-228 prep batch 160-490779:

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume. There was insufficient volume remaining due to re-analysis. The method blank (MB) and laboratory control sample (LCS) were also run at the reduced aliquot following NELAC guidance to match the nominal volume of client samples in the prep batch. The data have been reported with this narrative. SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), (LCS 160-490779/1-A), (LCSD 160-490779/2-A) and (MB 160-490779/8-A)

Method 9320: Radium-228 prep batch 160-490779:

The following sample has a barium carrier recovery above the 110% QC limit: SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), (LCS 160-490779/1-A), (LCSD 160-490779/2-A) and (MB 160-490779/8-A). Affected samples had a barium correction applied, however, there is possible concentrations of salt-like compounds (i.e. calcium, magnesium, sodium, and strontium) that can interfere with a barium sulfate recovery. The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The batch have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported.

Method 9320: Radium-228 prep batch 160-490779:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), (LCS 160-490779/1-A), (LCSD 160-490779/2-A) and (MB 160-490779/8-A)10

Method PrecSep\_0: Radium 228 Prep Batch 160-483498:

Insufficient sample volume was available to perform a sample duplicate for the following samples: SGWC-14 (180-111111-1), SGWC-15 (180-111111-2), SGWC-16 (180-111111-3), SGWC-17 (180-111111-4), SGWC-18 (180-111111-5), SGWC-19 (180-111111-6), SGWC-20 (180-111111-7), SGWC-21 (180-111111-8), SGWC-22 (180-111111-9), SGWC-23 (180-111111-10), FD-2 (AP) (180-111111-11), EB-2 (AP) (180-111111-12) and FB-2 (AP) (180-111111-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep\_0: Radium 228 Prep Batch 160-483632:

Insufficient sample volume was available to perform a sample duplicate for the following samples: SGWA-1 (180-111040-1), SGWA-2



# Case Narrative

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Job ID: 180-111040-2 (Continued)

### Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

(180-111040-2), SGWA-3 (180-111040-3), SGWA-4 (180-111040-4), SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), SGWC-6 (180-111040-8), SGWC-7 (180-111040-9), SGWC-8 (180-111040-10), SGWC-9 (180-111040-11), SGWC-10 (180-111040-12), SGWC-11 (180-111040-13), SGWC-12 (180-111040-14), SGWC-13 (180-111040-15), FB-1 (AP) (180-111040-16), EB-1 (AP) (180-111040-17) and FD-1 (AP) (180-111040-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep\_0: Radium 228 Prep Batch 160-486546:

Insufficient sample volume was available to perform a sample duplicate for the following samples: SGWA-1 (180-111040-1), SGWA-2 (180-111040-2), SGWA-3 (180-111040-3), SGWA-4 (180-111040-4), SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), SGWC-6 (180-111040-8), SGWC-7 (180-111040-9), SGWC-8 (180-111040-10), SGWC-9 (180-111040-11), SGWC-10 (180-111040-12), SGWC-11 (180-111040-13), SGWC-12 (180-111040-14), SGWC-13 (180-111040-15), FB-1 (AP) (180-111040-16), EB-1 (AP) (180-111040-17) and FD-1 (AP) (180-111040-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep\_0: Radium 228 Prep Batch 160-486546:

The following samples were prepared at a reduced aliquot due to re extract of the samples: SGWA-1 (180-111040-1), SGWA-2 (180-111040-2), SGWA-3 (180-111040-3), SGWA-4 (180-111040-4), SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), SGWC-6 (180-111040-8), SGWC-7 (180-111040-9), SGWC-8 (180-111040-10), SGWC-9 (180-111040-11), SGWC-10 (180-111040-12), SGWC-11 (180-111040-13), SGWC-12 (180-111040-14), SGWC-13 (180-111040-15), FB-1 (AP) (180-111040-16), EB-1 (AP) (180-111040-17) and FD-1 (AP) (180-111040-18).

Method PrecSep\_0: Radium 228 Prep Batch 160-490779:

Insufficient sample volume was available due to re-extract to perform a sample duplicate for the following samples: SGWA-5 (180-111040-5), SGWA-24 (180-111040-6) and SGWA-25 (180-111040-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep\_0: Radium 228 Prep batch 160-490779:

The following samples were prepared at a reduced aliquot due to limited volume due to re-extract: SGWA-5 (180-111040-5), SGWA-24 (180-111040-6) and SGWA-25 (180-111040-7).

Method PrecSep\_0: Radium 228 Only Prep Batch 490779

The Barium carrier recovery is outside the upper control limit (110%) for the following samples: SGWA-5 (180-111040-5), SGWA-24 (180-111040-6) and SGWA-25 (180-111040-7). Samples were dried longer than normal and still weighed over the 110% recovery threshold.

Method PrecSep-21: Radium 226 Prep Batch 160-483490:

Insufficient sample volume was available to perform a sample duplicate for the following samples: SGWC-14 (180-111111-1), SGWC-15 (180-111111-2), SGWC-16 (180-111111-3), SGWC-17 (180-111111-4), SGWC-18 (180-111111-5), SGWC-19 (180-111111-6), SGWC-20 (180-111111-7), SGWC-21 (180-111111-8), SGWC-22 (180-111111-9), SGWC-23 (180-111111-10), FD-2 (AP) (180-111111-11), EB-2 (AP) (180-111111-12) and FB-2 (AP) (180-111111-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-483631:

Insufficient sample volume was available to perform a sample duplicate for the following samples: SGWA-1 (180-111040-1), SGWA-2 (180-111040-2), SGWA-3 (180-111040-3), SGWA-4 (180-111040-4), SGWA-5 (180-111040-5), SGWA-24 (180-111040-6), SGWA-25 (180-111040-7), SGWC-6 (180-111040-8), SGWC-7 (180-111040-9), SGWC-8 (180-111040-10), SGWC-9 (180-111040-11), SGWC-10 (180-111040-12), SGWC-11 (180-111040-13), SGWC-12 (180-111040-14), SGWC-13 (180-111040-15), FB-1 (AP) (180-111040-16), EB-1 (AP) (180-111040-17) and FD-1 (AP) (180-111040-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

# Sample Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-111040-1	SGWA-1	Water	09/14/20 11:36	09/16/20 09:45	
180-111040-2	SGWA-2	Water	09/14/20 12:31	09/16/20 09:45	
180-111040-3	SGWA-3	Water	09/14/20 12:20	09/16/20 09:45	
180-111040-4	SGWA-4	Water	09/14/20 11:00	09/16/20 09:45	
180-111040-5	SGWA-5	Water	09/14/20 11:25	09/16/20 09:45	
180-111040-6	SGWA-24	Water	09/14/20 12:45	09/16/20 09:45	
180-111040-7	SGWA-25	Water	09/14/20 14:00	09/16/20 09:45	
180-111040-8	SGWC-6	Water	09/14/20 13:40	09/16/20 09:45	
180-111040-9	SGWC-7	Water	09/14/20 14:38	09/16/20 09:45	
180-111040-10	SGWC-8	Water	09/14/20 14:00	09/16/20 09:45	
180-111040-11	SGWC-9	Water	09/14/20 15:00	09/16/20 09:45	
180-111040-12	SGWC-10	Water	09/14/20 16:05	09/16/20 09:45	
180-111040-13	SGWC-11	Water	09/14/20 15:35	09/16/20 09:45	
180-111040-14	SGWC-12	Water	09/14/20 16:40	09/16/20 09:45	
180-111040-15	SGWC-13	Water	09/14/20 16:00	09/16/20 09:45	
180-111040-16	FB-1 (AP)	Water	09/14/20 11:10	09/16/20 09:45	
180-111040-17	EB-1 (AP)	Water	09/14/20 16:40	09/16/20 09:45	
180-111040-18	FD-1 (AP)	Water	09/14/20 00:00	09/16/20 09:45	
180-111111-1	SGWC-14	Water	09/15/20 09:25	09/17/20 09:30	
180-111111-2	SGWC-15	Water	09/15/20 10:40	09/17/20 09:30	
180-111111-3	SGWC-16	Water	09/15/20 11:55	09/17/20 09:30	
180-111111-4	SGWC-17	Water	09/15/20 13:40	09/17/20 09:30	
180-111111-5	SGWC-18	Water	09/15/20 15:05	09/17/20 09:30	
180-111111-6	SGWC19	Water	09/15/20 13:55	09/17/20 09:30	
180-111111-7	SGWC-20	Water	09/15/20 15:02	09/17/20 09:30	
180-111111-8	SGWC-21	Water	09/15/20 15:40	09/17/20 09:30	
180-111111-9	SGWC-22	Water	09/15/20 15:20	09/17/20 09:30	
180-111111-10	SGWC-23	Water	09/15/20 14:30	09/17/20 09:30	
180-111111-11	FD-2 (AP)	Water	09/15/20 00:00	09/17/20 09:30	
180-111111-12	EB-2 (AP)	Water	09/15/20 13:45	09/17/20 09:30	
180-111111-13	FB-2 (AP)	Water	09/15/20 09:00	09/17/20 09:30	

# Method Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

#### Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Client Sample ID: SGWA-1

## Lab Sample ID: 180-111040-1

Date Collected: 09/14/20 11:36

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:54	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.31 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:46	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWA-2

## Lab Sample ID: 180-111040-2

Date Collected: 09/14/20 12:31

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.77 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:54	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.81 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:47	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWA-3

## Lab Sample ID: 180-111040-3

Date Collected: 09/14/20 12:20

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.45 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:54	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.38 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:47	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWA-4

## Lab Sample ID: 180-111040-4

Date Collected: 09/14/20 11:00

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.15 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:54	SCB	TAL SL
Instrument ID: GFPCRED										

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Client Sample ID: SGWA-4

## Lab Sample ID: 180-111040-4

Date Collected: 09/14/20 11:00

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			749.68 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:47	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWA-5

## Lab Sample ID: 180-111040-5

Date Collected: 09/14/20 11:25

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.24 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:54	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			244.29 mL	1.0 g	490779	12/03/20 07:55	KMP	TAL SL
Total/NA	Analysis	9320		1			491659	12/14/20 09:17	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493007	12/24/20 13:57	GRW	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWA-24

## Lab Sample ID: 180-111040-6

Date Collected: 09/14/20 12:45

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.89 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:55	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			225.72 mL	1.0 g	490779	12/03/20 07:55	KMP	TAL SL
Total/NA	Analysis	9320		1			491659	12/14/20 09:17	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493007	12/24/20 13:57	GRW	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWA-25

## Lab Sample ID: 180-111040-7

Date Collected: 09/14/20 14:00

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.70 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:55	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			224.98 mL	1.0 g	490779	12/03/20 07:55	KMP	TAL SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	491659	12/14/20 09:17	FLC	TAL SL
Instrument ID: GFPCPURPLE										

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWA-25**  
**Date Collected: 09/14/20 14:00**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			493007	12/24/20 13:57	GRW	TAL SL

**Client Sample ID: SGWC-6**  
**Date Collected: 09/14/20 13:40**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.21 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:55	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.96 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:48	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-7**  
**Date Collected: 09/14/20 14:38**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.22 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 19:55	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			749.97 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:48	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-8**  
**Date Collected: 09/14/20 14:00**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.53 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:46	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			749.35 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:48	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										



# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-111040-11**

Date Collected: 09/14/20 15:00

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.87 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:46	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.50 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:48	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-111040-12**

Date Collected: 09/14/20 16:05

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.58 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:46	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.43 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:48	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-111040-13**

Date Collected: 09/14/20 15:35

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.91 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:46	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			749.09 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:48	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-111040-14**

Date Collected: 09/14/20 16:40

Matrix: Water

Date Received: 09/16/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.30 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:46	SCB	TAL SL
Instrument ID: GFPCRED										

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-12**  
**Date Collected: 09/14/20 16:40**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-14**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			749.83 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:48	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-13**  
**Date Collected: 09/14/20 16:00**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-15**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.13 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:47	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			749.62 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490574	11/30/20 11:49	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: FB-1 (AP)**  
**Date Collected: 09/14/20 11:10**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-16**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.67 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:47	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.76 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490561	11/30/20 11:50	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: EB-1 (AP)**  
**Date Collected: 09/14/20 16:40**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-17**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.26 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:47	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.01 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490561	11/30/20 11:50	SCB	TAL SL
Instrument ID: GFPCBLUE										

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: EB-1 (AP)**  
**Date Collected: 09/14/20 16:40**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-17**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL

**Client Sample ID: FD-1 (AP)**  
**Date Collected: 09/14/20 00:00**  
**Date Received: 09/16/20 09:45**

**Lab Sample ID: 180-111040-18**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.62 mL	1.0 g	483631	09/25/20 08:21	AVB	TAL SL
Total/NA	Analysis	9315		1			486231	10/19/20 21:47	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			749.58 mL	1.0 g	486546	10/22/20 09:15	AVB	TAL SL
Total/NA	Analysis	9320		1			490561	11/30/20 11:50	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			493165	12/28/20 11:24	GRW	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-14**  
**Date Collected: 09/15/20 09:25**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.51 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:29	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.51 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485332	10/12/20 12:36	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: SGWC-15**  
**Date Collected: 09/15/20 10:40**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.50 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:29	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.50 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485332	10/12/20 12:37	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Client Sample ID: SGWC-16

## Lab Sample ID: 180-111111-3

Date Collected: 09/15/20 11:55

Matrix: Water

Date Received: 09/17/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.19 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:29	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.19 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485332	10/12/20 12:37	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-17

## Lab Sample ID: 180-111111-4

Date Collected: 09/15/20 13:40

Matrix: Water

Date Received: 09/17/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.84 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:29	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.84 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485332	10/12/20 12:37	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-18

## Lab Sample ID: 180-111111-5

Date Collected: 09/15/20 15:05

Matrix: Water

Date Received: 09/17/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.65 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:29	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.65 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:40	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC19

## Lab Sample ID: 180-111111-6

Date Collected: 09/15/20 13:55

Matrix: Water

Date Received: 09/17/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.40 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:30	FLC	TAL SL
Instrument ID: GFPCRED										

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# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Client Sample ID: SGWC19

## Lab Sample ID: 180-111111-6

Date Collected: 09/15/20 13:55

Matrix: Water

Date Received: 09/17/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.40 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:40	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-20

## Lab Sample ID: 180-111111-7

Date Collected: 09/15/20 15:02

Matrix: Water

Date Received: 09/17/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.54 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:30	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.54 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:40	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-21

## Lab Sample ID: 180-111111-8

Date Collected: 09/15/20 15:40

Matrix: Water

Date Received: 09/17/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.90 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:30	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.90 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:40	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

## Client Sample ID: SGWC-22

## Lab Sample ID: 180-111111-9

Date Collected: 09/15/20 15:20

Matrix: Water

Date Received: 09/17/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.73 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:30	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.73 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:40	SCB	TAL SL
Instrument ID: GFPCPROTEAN										

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-22**  
**Date Collected: 09/15/20 15:20**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL

**Client Sample ID: SGWC-23**  
**Date Collected: 09/15/20 14:30**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.19 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 06:30	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.19 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:40	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: FD-2 (AP)**  
**Date Collected: 09/15/20 00:00**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-11**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.73 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 08:18	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.73 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:40	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

**Client Sample ID: EB-2 (AP)**  
**Date Collected: 09/15/20 13:45**  
**Date Received: 09/17/20 09:30**

**Lab Sample ID: 180-111111-12**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.98 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 08:18	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.98 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:40	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: FB-2 (AP)**

**Lab Sample ID: 180-111111-13**

**Date Collected: 09/15/20 09:00**

**Matrix: Water**

**Date Received: 09/17/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.22 mL	1.0 g	483490	09/24/20 09:19	AVB	TAL SL
Total/NA	Analysis	9315		1			485933	10/16/20 08:18	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.22 mL	1.0 g	483498	09/24/20 09:44	AVB	TAL SL
Total/NA	Analysis	9320		1			485333	10/12/20 12:41	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			487768	11/02/20 23:20	SCB	TAL SL
Instrument ID: NOEQUIP										

**Laboratory References:**

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

**Analyst References:**

Lab: TAL SL

Batch Type: Prep

AVB = Amber Bleem

KMP = Karen Phillips

Batch Type: Analysis

FLC = Fernando Cruz

GRW = George Witt

SCB = Sarah Bernsen

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWA-1**

**Lab Sample ID: 180-111040-1**

Date Collected: 09/14/20 11:36

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0778	U	0.0751	0.0754	1.00	0.114	pCi/L	09/25/20 08:21	10/19/20 19:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					09/25/20 08:21	10/19/20 19:54	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.208	U	0.262	0.262	1.00	0.504	pCi/L	10/22/20 09:15	11/30/20 11:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					10/22/20 09:15	11/30/20 11:46	1
Y Carrier	88.6		40 - 110					10/22/20 09:15	11/30/20 11:46	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.130	U	0.273	0.273	5.00	0.504	pCi/L		12/28/20 11:24	1



# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWA-2**

**Lab Sample ID: 180-111040-2**

Date Collected: 09/14/20 12:31

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0852	U	0.0791	0.0795	1.00	0.119	pCi/L	09/25/20 08:21	10/19/20 19:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					09/25/20 08:21	10/19/20 19:54	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0215	U	0.274	0.274	1.00	0.487	pCi/L	10/22/20 09:15	11/30/20 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					10/22/20 09:15	11/30/20 11:47	1
Y Carrier	86.7		40 - 110					10/22/20 09:15	11/30/20 11:47	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.107	U	0.285	0.285	5.00	0.487	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWA-3**

**Lab Sample ID: 180-111040-3**

Date Collected: 09/14/20 12:20

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.150		0.103	0.104	1.00	0.138	pCi/L	09/25/20 08:21	10/19/20 19:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					09/25/20 08:21	10/19/20 19:54	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0110	U	0.255	0.255	1.00	0.458	pCi/L	10/22/20 09:15	11/30/20 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/22/20 09:15	11/30/20 11:47	1
Y Carrier	89.0		40 - 110					10/22/20 09:15	11/30/20 11:47	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.161	U	0.275	0.275	5.00	0.458	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWA-4**

**Lab Sample ID: 180-111040-4**

Date Collected: 09/14/20 11:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00975	U	0.0617	0.0617	1.00	0.136	pCi/L	09/25/20 08:21	10/19/20 19:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					09/25/20 08:21	10/19/20 19:54	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0497	U	0.289	0.289	1.00	0.509	pCi/L	10/22/20 09:15	11/30/20 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					10/22/20 09:15	11/30/20 11:47	1
Y Carrier	83.7		40 - 110					10/22/20 09:15	11/30/20 11:47	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0399	U	0.296	0.296	5.00	0.509	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWA-5**

**Lab Sample ID: 180-111040-5**

Date Collected: 09/14/20 11:25

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.150		0.0972	0.0981	1.00	0.128	pCi/L	09/25/20 08:21	10/19/20 19:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					09/25/20 08:21	10/19/20 19:54	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-1.10	U * G	0.793	0.800	1.00	1.59	pCi/L	12/03/20 07:55	12/14/20 09:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	140	X	40 - 110					12/03/20 07:55	12/14/20 09:17	1
Y Carrier	92.7		40 - 110					12/03/20 07:55	12/14/20 09:17	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.949	U	0.799	0.806	5.00	1.59	pCi/L		12/24/20 13:57	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWA-24**  
 Date Collected: 09/14/20 12:45  
 Date Received: 09/16/20 09:45

**Lab Sample ID: 180-111040-6**  
 Matrix: Water

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106	U	0.0861	0.0866	1.00	0.123	pCi/L	09/25/20 08:21	10/19/20 19:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/25/20 08:21	10/19/20 19:55	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.531	U * G	0.984	0.985	1.00	1.67	pCi/L	12/03/20 07:55	12/14/20 09:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	187	X	40 - 110					12/03/20 07:55	12/14/20 09:17	1
Y Carrier	87.1		40 - 110					12/03/20 07:55	12/14/20 09:17	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.637	U	0.988	0.989	5.00	1.67	pCi/L		12/24/20 13:57	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWA-25**  
 Date Collected: 09/14/20 14:00  
 Date Received: 09/16/20 09:45

**Lab Sample ID: 180-111040-7**  
 Matrix: Water

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0421	U	0.0767	0.0768	1.00	0.136	pCi/L	09/25/20 08:21	10/19/20 19:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		40 - 110					09/25/20 08:21	10/19/20 19:55	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.239	U * G	1.17	1.17	1.00	2.14	pCi/L	12/03/20 07:55	12/14/20 09:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	144	X	40 - 110					12/03/20 07:55	12/14/20 09:17	1
Y Carrier	68.8		40 - 110					12/03/20 07:55	12/14/20 09:17	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.197	U	1.17	1.17	5.00	2.14	pCi/L		12/24/20 13:57	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-6**

**Lab Sample ID: 180-111040-8**

Date Collected: 09/14/20 13:40

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0558	U	0.0848	0.0850	1.00	0.146	pCi/L	09/25/20 08:21	10/19/20 19:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					09/25/20 08:21	10/19/20 19:55	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.278	U	0.314	0.315	1.00	0.515	pCi/L	10/22/20 09:15	11/30/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/22/20 09:15	11/30/20 11:48	1
Y Carrier	86.7		40 - 110					10/22/20 09:15	11/30/20 11:48	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.334	U	0.325	0.326	5.00	0.515	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-7**

**Lab Sample ID: 180-111040-9**

Date Collected: 09/14/20 14:38

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0153	U	0.0738	0.0738	1.00	0.145	pCi/L	09/25/20 08:21	10/19/20 19:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					09/25/20 08:21	10/19/20 19:55	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.108	U	0.280	0.280	1.00	0.486	pCi/L	10/22/20 09:15	11/30/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/22/20 09:15	11/30/20 11:48	1
Y Carrier	88.6		40 - 110					10/22/20 09:15	11/30/20 11:48	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.123	U	0.290	0.290	5.00	0.486	pCi/L		12/28/20 11:24	1



# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-8**

**Lab Sample ID: 180-111040-10**

Date Collected: 09/14/20 14:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.728		0.182	0.194	1.00	0.123	pCi/L	09/25/20 08:21	10/19/20 21:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		40 - 110					09/25/20 08:21	10/19/20 21:46	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.43		0.379	0.401	1.00	0.468	pCi/L	10/22/20 09:15	11/30/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					10/22/20 09:15	11/30/20 11:48	1
Y Carrier	90.1		40 - 110					10/22/20 09:15	11/30/20 11:48	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.16		0.420	0.445	5.00	0.468	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-9**

**Lab Sample ID: 180-111040-11**

Date Collected: 09/14/20 15:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104	U	0.0894	0.0899	1.00	0.131	pCi/L	09/25/20 08:21	10/19/20 21:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/25/20 08:21	10/19/20 21:46	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.398	U	0.347	0.349	1.00	0.558	pCi/L	10/22/20 09:15	11/30/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					10/22/20 09:15	11/30/20 11:48	1
Y Carrier	87.1		40 - 110					10/22/20 09:15	11/30/20 11:48	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.502	U	0.358	0.360	5.00	0.558	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-10**

**Lab Sample ID: 180-111040-12**

Date Collected: 09/14/20 16:05

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0220	U	0.0908	0.0908	1.00	0.171	pCi/L	09/25/20 08:21	10/19/20 21:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					09/25/20 08:21	10/19/20 21:46	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.103	U	0.273	0.273	1.00	0.472	pCi/L	10/22/20 09:15	11/30/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					10/22/20 09:15	11/30/20 11:48	1
Y Carrier	88.2		40 - 110					10/22/20 09:15	11/30/20 11:48	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.125	U	0.288	0.288	5.00	0.472	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-11**

**Lab Sample ID: 180-111040-13**

Date Collected: 09/14/20 15:35

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.0907	0.0912	1.00	0.131	pCi/L	09/25/20 08:21	10/19/20 21:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		40 - 110					09/25/20 08:21	10/19/20 21:46	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.138	U	0.219	0.219	1.00	0.427	pCi/L	10/22/20 09:15	11/30/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					10/22/20 09:15	11/30/20 11:48	1
Y Carrier	89.0		40 - 110					10/22/20 09:15	11/30/20 11:48	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0264	U	0.237	0.237	5.00	0.427	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-12**

**Lab Sample ID: 180-111040-14**

Date Collected: 09/14/20 16:40

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179	U	0.126	0.127	1.00	0.182	pCi/L	09/25/20 08:21	10/19/20 21:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		40 - 110					09/25/20 08:21	10/19/20 21:46	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.396	U	0.263	0.265	1.00	0.399	pCi/L	10/22/20 09:15	11/30/20 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					10/22/20 09:15	11/30/20 11:48	1
Y Carrier	87.9		40 - 110					10/22/20 09:15	11/30/20 11:48	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.575</b>		0.292	0.294	5.00	0.399	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-13**

**Lab Sample ID: 180-111040-15**

Date Collected: 09/14/20 16:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125	U	0.0948	0.0954	1.00	0.134	pCi/L	09/25/20 08:21	10/19/20 21:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/25/20 08:21	10/19/20 21:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.489</b>		0.281	0.284	1.00	0.415	pCi/L	10/22/20 09:15	11/30/20 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110					10/22/20 09:15	11/30/20 11:49	1
Y Carrier	89.3		40 - 110					10/22/20 09:15	11/30/20 11:49	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.613</b>		0.297	0.300	5.00	0.415	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: FB-1 (AP)**

**Lab Sample ID: 180-111040-16**

Date Collected: 09/14/20 11:10

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0305	U	0.0622	0.0623	1.00	0.114	pCi/L	09/25/20 08:21	10/19/20 21:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/25/20 08:21	10/19/20 21:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.454	U	0.302	0.305	1.00	0.464	pCi/L	10/22/20 09:15	11/30/20 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					10/22/20 09:15	11/30/20 11:50	1
Y Carrier	87.5		40 - 110					10/22/20 09:15	11/30/20 11:50	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.484</b>		0.308	0.311	5.00	0.464	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: EB-1 (AP)**

**Lab Sample ID: 180-111040-17**

Date Collected: 09/14/20 16:40

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102	U	0.0815	0.0820	1.00	0.115	pCi/L	09/25/20 08:21	10/19/20 21:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					09/25/20 08:21	10/19/20 21:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0876	U	0.276	0.276	1.00	0.479	pCi/L	10/22/20 09:15	11/30/20 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					10/22/20 09:15	11/30/20 11:50	1
Y Carrier	85.6		40 - 110					10/22/20 09:15	11/30/20 11:50	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.189	U	0.288	0.288	5.00	0.479	pCi/L		12/28/20 11:24	1



# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: FD-1 (AP)**

**Lab Sample ID: 180-111040-18**

Date Collected: 09/14/20 00:00

Matrix: Water

Date Received: 09/16/20 09:45

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0906	U	0.0846	0.0850	1.00	0.128	pCi/L	09/25/20 08:21	10/19/20 21:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/25/20 08:21	10/19/20 21:47	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.266	U	0.291	0.292	1.00	0.477	pCi/L	10/22/20 09:15	11/30/20 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					10/22/20 09:15	11/30/20 11:50	1
Y Carrier	89.0		40 - 110					10/22/20 09:15	11/30/20 11:50	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.357	U	0.303	0.304	5.00	0.477	pCi/L		12/28/20 11:24	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-14**

**Lab Sample ID: 180-111111-1**

Date Collected: 09/15/20 09:25

Matrix: Water

Date Received: 09/17/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.158		0.0948	0.0959	1.00	0.117	pCi/L	09/24/20 09:19	10/16/20 06:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					09/24/20 09:19	10/16/20 06:29	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0265	U	0.255	0.255	1.00	0.464	pCi/L	09/24/20 09:44	10/12/20 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					09/24/20 09:44	10/12/20 12:36	1
Y Carrier	73.3		40 - 110					09/24/20 09:44	10/12/20 12:36	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.131	U	0.272	0.272	5.00	0.464	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-15**

**Lab Sample ID: 180-111111-2**

Date Collected: 09/15/20 10:40

Matrix: Water

Date Received: 09/17/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.158		0.0976	0.0986	1.00	0.123	pCi/L	09/24/20 09:19	10/16/20 06:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/24/20 09:19	10/16/20 06:29	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.387	U	0.304	0.306	1.00	0.481	pCi/L	09/24/20 09:44	10/12/20 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/24/20 09:44	10/12/20 12:37	1
Y Carrier	73.3		40 - 110					09/24/20 09:44	10/12/20 12:37	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.546		0.319	0.321	5.00	0.481	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-16**

**Lab Sample ID: 180-111111-3**

Date Collected: 09/15/20 11:55

Matrix: Water

Date Received: 09/17/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.153		0.0996	0.101	1.00	0.132	pCi/L	09/24/20 09:19	10/16/20 06:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					09/24/20 09:19	10/16/20 06:29	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.195	U	0.261	0.262	1.00	0.497	pCi/L	09/24/20 09:44	10/12/20 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					09/24/20 09:44	10/12/20 12:37	1
Y Carrier	76.6		40 - 110					09/24/20 09:44	10/12/20 12:37	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0426	U	0.279	0.281	5.00	0.497	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-17**  
 Date Collected: 09/15/20 13:40  
 Date Received: 09/17/20 09:30

**Lab Sample ID: 180-111111-4**  
 Matrix: Water

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.117	U	0.0997	0.100	1.00	0.148	pCi/L	09/24/20 09:19	10/16/20 06:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					09/24/20 09:19	10/16/20 06:29	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.544</b>		0.327	0.331	1.00	0.497	pCi/L	09/24/20 09:44	10/12/20 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					09/24/20 09:44	10/12/20 12:37	1
Y Carrier	73.3		40 - 110					09/24/20 09:44	10/12/20 12:37	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.661</b>		0.342	0.346	5.00	0.497	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-18**  
 Date Collected: 09/15/20 15:05  
 Date Received: 09/17/20 09:30

**Lab Sample ID: 180-111111-5**  
 Matrix: Water

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.162</b>		0.110	0.111	1.00	0.148	pCi/L	09/24/20 09:19	10/16/20 06:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		40 - 110					09/24/20 09:19	10/16/20 06:29	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>1.57</b>		0.473	0.494	1.00	0.639	pCi/L	09/24/20 09:44	10/12/20 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		40 - 110					09/24/20 09:44	10/12/20 12:40	1
Y Carrier	74.4		40 - 110					09/24/20 09:44	10/12/20 12:40	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.74</b>		0.486	0.506	5.00	0.639	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC19**

**Lab Sample ID: 180-111111-6**

Date Collected: 09/15/20 13:55

Matrix: Water

Date Received: 09/17/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.256		0.119	0.121	1.00	0.131	pCi/L	09/24/20 09:19	10/16/20 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/24/20 09:19	10/16/20 06:30	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.29		0.380	0.398	1.00	0.493	pCi/L	09/24/20 09:44	10/12/20 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/24/20 09:44	10/12/20 12:40	1
Y Carrier	76.3		40 - 110					09/24/20 09:44	10/12/20 12:40	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.55		0.398	0.416	5.00	0.493	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-20**  
 Date Collected: 09/15/20 15:02  
 Date Received: 09/17/20 09:30

**Lab Sample ID: 180-111111-7**  
 Matrix: Water

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.360</b>		0.135	0.139	1.00	0.131	pCi/L	09/24/20 09:19	10/16/20 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					09/24/20 09:19	10/16/20 06:30	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.471</b>		0.302	0.306	1.00	0.465	pCi/L	09/24/20 09:44	10/12/20 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					09/24/20 09:44	10/12/20 12:40	1
Y Carrier	77.8		40 - 110					09/24/20 09:44	10/12/20 12:40	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.831</b>		0.331	0.336	5.00	0.465	pCi/L		11/02/20 23:20	1



# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-21**

**Lab Sample ID: 180-111111-8**

Date Collected: 09/15/20 15:40

Matrix: Water

Date Received: 09/17/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.158		0.107	0.108	1.00	0.146	pCi/L	09/24/20 09:19	10/16/20 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					09/24/20 09:19	10/16/20 06:30	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.382	0.404	1.00	0.478	pCi/L	09/24/20 09:44	10/12/20 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					09/24/20 09:44	10/12/20 12:40	1
Y Carrier	75.9		40 - 110					09/24/20 09:44	10/12/20 12:40	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.60		0.397	0.418	5.00	0.478	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-22**

**Lab Sample ID: 180-111111-9**

Date Collected: 09/15/20 15:20

Matrix: Water

Date Received: 09/17/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.242</b>		0.135	0.137	1.00	0.172	pCi/L	09/24/20 09:19	10/16/20 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					09/24/20 09:19	10/16/20 06:30	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>1.58</b>		0.445	0.468	1.00	0.572	pCi/L	09/24/20 09:44	10/12/20 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					09/24/20 09:44	10/12/20 12:40	1
Y Carrier	77.4		40 - 110					09/24/20 09:44	10/12/20 12:40	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.82</b>		0.465	0.488	5.00	0.572	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: SGWC-23**

**Lab Sample ID: 180-111111-10**

Date Collected: 09/15/20 14:30

Matrix: Water

Date Received: 09/17/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.503		0.165	0.171	1.00	0.154	pCi/L	09/24/20 09:19	10/16/20 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					09/24/20 09:19	10/16/20 06:30	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.525		0.318	0.322	1.00	0.486	pCi/L	09/24/20 09:44	10/12/20 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					09/24/20 09:44	10/12/20 12:40	1
Y Carrier	77.8		40 - 110					09/24/20 09:44	10/12/20 12:40	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.03		0.358	0.365	5.00	0.486	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: FD-2 (AP)**  
 Date Collected: 09/15/20 00:00  
 Date Received: 09/17/20 09:30

**Lab Sample ID: 180-111111-11**  
 Matrix: Water

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.118	U	0.0973	0.0979	1.00	0.140	pCi/L	09/24/20 09:19	10/16/20 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					09/24/20 09:19	10/16/20 08:18	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.501</b>		0.324	0.327	1.00	0.499	pCi/L	09/24/20 09:44	10/12/20 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					09/24/20 09:44	10/12/20 12:40	1
Y Carrier	83.4		40 - 110					09/24/20 09:44	10/12/20 12:40	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.618</b>		0.338	0.341	5.00	0.499	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: EB-2 (AP)**

**Lab Sample ID: 180-111111-12**

Date Collected: 09/15/20 13:45

Matrix: Water

Date Received: 09/17/20 09:30

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00928	U	0.0575	0.0576	1.00	0.131	pCi/L	09/24/20 09:19	10/16/20 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					09/24/20 09:19	10/16/20 08:18	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.416	U	0.291	0.294	1.00	0.455	pCi/L	09/24/20 09:44	10/12/20 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					09/24/20 09:44	10/12/20 12:40	1
Y Carrier	83.4		40 - 110					09/24/20 09:44	10/12/20 12:40	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.407	U	0.297	0.300	5.00	0.455	pCi/L		11/02/20 23:20	1

# Client Sample Results

Client: Southern Company  
 Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

**Client Sample ID: FB-2 (AP)**  
 Date Collected: 09/15/20 09:00  
 Date Received: 09/17/20 09:30

**Lab Sample ID: 180-111111-13**  
 Matrix: Water

**Method: 9315 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125	U	0.113	0.114	1.00	0.175	pCi/L	09/24/20 09:19	10/16/20 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/24/20 09:19	10/16/20 08:18	1

**Method: 9320 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.465	U	0.325	0.328	1.00	0.509	pCi/L	09/24/20 09:44	10/12/20 12:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					09/24/20 09:44	10/12/20 12:41	1
Y Carrier	78.9		40 - 110					09/24/20 09:44	10/12/20 12:41	1

**Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.590</b>		0.344	0.347	5.00	0.509	pCi/L		11/02/20 23:20	1

# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Method: 9315 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-483490/20-A**  
**Matrix: Water**  
**Analysis Batch: 485933**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 483490**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07197	U	0.0821	0.0824	1.00	0.132	pCi/L	09/24/20 09:19	10/16/20 08:18	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	88.2		40 - 110					09/24/20 09:19	10/16/20 08:18	1

**Lab Sample ID: LCS 160-483490/1-A**  
**Matrix: Water**  
**Analysis Batch: 485933**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 483490**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.37		1.14	1.00	0.125	pCi/L	91	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	89.6		40 - 110						

**Lab Sample ID: LCSD 160-483490/2-A**  
**Matrix: Water**  
**Analysis Batch: 485933**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 483490**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	11.39		1.24	1.00	0.136	pCi/L	100	75 - 125	0.43	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	83.4		40 - 110								

**Lab Sample ID: MB 160-483631/21-A**  
**Matrix: Water**  
**Analysis Batch: 486231**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 483631**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2627		0.120	0.122	1.00	0.135	pCi/L	09/25/20 08:21	10/19/20 21:47	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	86.1		40 - 110					09/25/20 08:21	10/19/20 21:47	1

**Lab Sample ID: LCS 160-483631/1-A**  
**Matrix: Water**  
**Analysis Batch: 486231**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 483631**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	8.559		0.954	1.00	0.158	pCi/L	75	75 - 125

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Method: 9315 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-483631/1-A**  
**Matrix: Water**  
**Analysis Batch: 486231**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 483631**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.5		40 - 110

**Lab Sample ID: LCSD 160-483631/2-A**  
**Matrix: Water**  
**Analysis Batch: 486231**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 483631**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.77	1	
Radium-226	11.3	10.15		1.11	1.00	0.125	pCi/L	89	75 - 125	0.77	1	

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.2		40 - 110

## Method: 9320 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-483498/20-A**  
**Matrix: Water**  
**Analysis Batch: 485306**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 483498**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								09/24/20 09:44	10/12/20 12:42	10/12/20 12:42	1	
Radium-228	0.3365	U	0.253	0.255	1.00	0.396	pCi/L	09/24/20 09:44	10/12/20 12:42	10/12/20 12:42	1	

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier				
Ba Carrier	88.2		40 - 110	09/24/20 09:44	10/12/20 12:42	1
Y Carrier	81.5		40 - 110	09/24/20 09:44	10/12/20 12:42	1

**Lab Sample ID: LCS 160-483498/1-A**  
**Matrix: Water**  
**Analysis Batch: 485332**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 483498**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75 - 125	
Radium-228	7.74	7.751		0.951	1.00	0.364	pCi/L	100	75 - 125	

	LCS	LCS	Limits
Carrier	%Yield	Qualifier	
Ba Carrier	89.6		40 - 110
Y Carrier	81.9		40 - 110

**Lab Sample ID: LCSD 160-483498/2-A**  
**Matrix: Water**  
**Analysis Batch: 485332**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 483498**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.72	1	
Radium-228	7.74	9.277		1.18	1.00	0.567	pCi/L	120	75 - 125	0.72	1	

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCSD 160-483498/2-A**  
**Matrix: Water**  
**Analysis Batch: 485332**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 483498**

	<i>LCS</i>	<i>LCS</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	83.4		40 - 110
Y Carrier	65.0		40 - 110

**Lab Sample ID: MB 160-486546/21-A**  
**Matrix: Water**  
**Analysis Batch: 490561**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 486546**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.2301	U	0.280	0.280	1.00	0.537	pCi/L	10/22/20 09:15	11/30/20 11:51	1

	<i>MB</i>	<i>MB</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>			
Ba Carrier	93.8		40 - 110	10/22/20 09:15	11/30/20 11:51	1
Y Carrier	88.6		40 - 110	10/22/20 09:15	11/30/20 11:51	1

**Lab Sample ID: LCS 160-486546/1-A**  
**Matrix: Water**  
**Analysis Batch: 490574**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 486546**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	10.2	9.901		1.22	1.00	0.532	pCi/L	98	75 - 125

	<i>LCS</i>	<i>LCS</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	90.6		40 - 110
Y Carrier	85.6		40 - 110

**Lab Sample ID: LCSD 160-486546/2-A**  
**Matrix: Water**  
**Analysis Batch: 490574**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 486546**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-228	10.2	9.467		1.14	1.00	0.458	pCi/L	93	75 - 125	0.18	1

	<i>LCSD</i>	<i>LCSD</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	101		40 - 110
Y Carrier	88.6		40 - 110

**Lab Sample ID: MB 160-490779/8-A**  
**Matrix: Water**  
**Analysis Batch: 491659**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 490779**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-1.205	U G	1.15	1.15	1.00	2.24	pCi/L	12/03/20 07:55	12/14/20 09:17	1

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# QC Sample Results

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Method: 9320 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: MB 160-490779/8-A**  
**Matrix: Water**  
**Analysis Batch: 491659**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 490779**

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	71.1		40 - 110	12/03/20 07:55	12/14/20 09:17	1
Y Carrier	89.3		40 - 110	12/03/20 07:55	12/14/20 09:17	1

**Lab Sample ID: LCS 160-490779/1-A**  
**Matrix: Water**  
**Analysis Batch: 491659**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 490779**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	116	X	40 - 110
Y Carrier	93.8		40 - 110

**Lab Sample ID: LCSD 160-490779/2-A**  
**Matrix: Water**  
**Analysis Batch: 491659**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 490779**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit

Carrier	LCSD LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	119	X	40 - 110
Y Carrier	93.1		40 - 110

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Rad

### Prep Batch: 483490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-1	SGWC-14	Total/NA	Water	PrecSep-21	
180-111111-2	SGWC-15	Total/NA	Water	PrecSep-21	
180-111111-3	SGWC-16	Total/NA	Water	PrecSep-21	
180-111111-4	SGWC-17	Total/NA	Water	PrecSep-21	
180-111111-5	SGWC-18	Total/NA	Water	PrecSep-21	
180-111111-6	SGWC-19	Total/NA	Water	PrecSep-21	
180-111111-7	SGWC-20	Total/NA	Water	PrecSep-21	
180-111111-8	SGWC-21	Total/NA	Water	PrecSep-21	
180-111111-9	SGWC-22	Total/NA	Water	PrecSep-21	
180-111111-10	SGWC-23	Total/NA	Water	PrecSep-21	
180-111111-11	FD-2 (AP)	Total/NA	Water	PrecSep-21	
180-111111-12	EB-2 (AP)	Total/NA	Water	PrecSep-21	
180-111111-13	FB-2 (AP)	Total/NA	Water	PrecSep-21	
MB 160-483490/20-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-483490/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-483490/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

### Prep Batch: 483498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111111-1	SGWC-14	Total/NA	Water	PrecSep_0	
180-111111-2	SGWC-15	Total/NA	Water	PrecSep_0	
180-111111-3	SGWC-16	Total/NA	Water	PrecSep_0	
180-111111-4	SGWC-17	Total/NA	Water	PrecSep_0	
180-111111-5	SGWC-18	Total/NA	Water	PrecSep_0	
180-111111-6	SGWC-19	Total/NA	Water	PrecSep_0	
180-111111-7	SGWC-20	Total/NA	Water	PrecSep_0	
180-111111-8	SGWC-21	Total/NA	Water	PrecSep_0	
180-111111-9	SGWC-22	Total/NA	Water	PrecSep_0	
180-111111-10	SGWC-23	Total/NA	Water	PrecSep_0	
180-111111-11	FD-2 (AP)	Total/NA	Water	PrecSep_0	
180-111111-12	EB-2 (AP)	Total/NA	Water	PrecSep_0	
180-111111-13	FB-2 (AP)	Total/NA	Water	PrecSep_0	
MB 160-483498/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-483498/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-483498/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

### Prep Batch: 483631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total/NA	Water	PrecSep-21	
180-111040-2	SGWA-2	Total/NA	Water	PrecSep-21	
180-111040-3	SGWA-3	Total/NA	Water	PrecSep-21	
180-111040-4	SGWA-4	Total/NA	Water	PrecSep-21	
180-111040-5	SGWA-5	Total/NA	Water	PrecSep-21	
180-111040-6	SGWA-24	Total/NA	Water	PrecSep-21	
180-111040-7	SGWA-25	Total/NA	Water	PrecSep-21	
180-111040-8	SGWC-6	Total/NA	Water	PrecSep-21	
180-111040-9	SGWC-7	Total/NA	Water	PrecSep-21	
180-111040-10	SGWC-8	Total/NA	Water	PrecSep-21	
180-111040-11	SGWC-9	Total/NA	Water	PrecSep-21	
180-111040-12	SGWC-10	Total/NA	Water	PrecSep-21	
180-111040-13	SGWC-11	Total/NA	Water	PrecSep-21	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: Plant Scherer Ash Pond

Job ID: 180-111040-2

## Rad (Continued)

### Prep Batch: 483631 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-14	SGWC-12	Total/NA	Water	PrecSep-21	
180-111040-15	SGWC-13	Total/NA	Water	PrecSep-21	
180-111040-16	FB-1 (AP)	Total/NA	Water	PrecSep-21	
180-111040-17	EB-1 (AP)	Total/NA	Water	PrecSep-21	
180-111040-18	FD-1 (AP)	Total/NA	Water	PrecSep-21	
MB 160-483631/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-483631/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-483631/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

### Prep Batch: 486546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-1	SGWA-1	Total/NA	Water	PrecSep_0	
180-111040-2	SGWA-2	Total/NA	Water	PrecSep_0	
180-111040-3	SGWA-3	Total/NA	Water	PrecSep_0	
180-111040-4	SGWA-4	Total/NA	Water	PrecSep_0	
180-111040-8	SGWC-6	Total/NA	Water	PrecSep_0	
180-111040-9	SGWC-7	Total/NA	Water	PrecSep_0	
180-111040-10	SGWC-8	Total/NA	Water	PrecSep_0	
180-111040-11	SGWC-9	Total/NA	Water	PrecSep_0	
180-111040-12	SGWC-10	Total/NA	Water	PrecSep_0	
180-111040-13	SGWC-11	Total/NA	Water	PrecSep_0	
180-111040-14	SGWC-12	Total/NA	Water	PrecSep_0	
180-111040-15	SGWC-13	Total/NA	Water	PrecSep_0	
180-111040-16	FB-1 (AP)	Total/NA	Water	PrecSep_0	
180-111040-17	EB-1 (AP)	Total/NA	Water	PrecSep_0	
180-111040-18	FD-1 (AP)	Total/NA	Water	PrecSep_0	
MB 160-486546/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-486546/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-486546/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

### Prep Batch: 490779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111040-5	SGWA-5	Total/NA	Water	PrecSep_0	
180-111040-6	SGWA-24	Total/NA	Water	PrecSep_0	
180-111040-7	SGWA-25	Total/NA	Water	PrecSep_0	
MB 160-490779/8-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-490779/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-490779/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

TestAmerica Pittsburgh  
361 Alpha Drive  
RDC Park  
Pittsburgh, PA 15228-2907  
Phone 412 963 7968 Fax 412 963 2488

# 244- ATLANTA Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  Air  SWD  RCRA  Other

Client Contact: **Project Manager: Dawn Frail** Phone: **248-338-5445** Site Contact: **Karin Mikura** Date: **8/18/2020** CQC No: \_\_\_\_\_  
 Southern Company Lab Contact: **Veronica Borot** Carrier: \_\_\_\_\_

Analysis Turnaround Time: \_\_\_\_\_  
 2 business days  3 business days  
 1-2 business days from below \_\_\_\_\_  
 2 weeks  1 week  3 days  1 day

180-111040 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Retention Status												Sample Specific Notes								
						1	2	3	4	5	6	7	8	9	10	11	12									
SO2NH-1	8/14/2020	11:36	G	Water	3																				pH = 6.11	
SO2NH-2	8/19/2020	12:31	G	Water	3																					pH = 6.73
SO2NH-3	8/19/2020	12:29	G	Water	3																					pH = 6.84
SO2NH-4	8/17/2020	11:00	G	Water	3																					pH = 6.40
SO2NH-5	8/19/2020	11:25	G	Water	3																					pH = 6.82
SO2NH-24	8/19/2020	12:45	G	Water	3																					pH = 6.52
SO2NH-25	8/20/2020	14:00	G	Water	3																					pH = 6.58
SO2NC-6	8/21/2020	13:40	G	Water	3																					pH = 6.29
SO2NC-7	8/22/2020	14:38	G	Water	3																					pH = 6.51
SO2NC-8	8/23/2020	12:45	G	Water	3																					pH = 6.52
SO2NC-9	8/24/2020	15:00	G	Water	3																					pH = 6.33
SO2NC-10	8/25/2020	16:00	G	Water	3																					pH = 6.51

Preservation Used:  Ice;  HCC;  H2SO4; 4-18603;  Other

Possible Hazard Identification: \_\_\_\_\_

Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. \_\_\_\_\_

Sealed  Disposed  Not Sealed  Other

Special Instructions/OC Requirements & Comments: \_\_\_\_\_

Custody Seal No.: \_\_\_\_\_  
 Company: **Gold...**

Requested by: **Blayne Cook**  
 Date: **8-15-20**

Received by: **Blayne Cook**  
 Date: **8-18-20**

Company: **Blayne Cook**  
 Date: **8-18-20**  
 Received by: **Blayne Cook**  
 Date: **8-18-20**  
 Company: **Blayne Cook**  
 Date: **8-18-20**



Regulatory Program:  Air  Soil  Sediment  Other

Client Contact		Project Manager/ Dawn Poff Tel/Fax: 248-526-5445		Site Contact: Martin Minkus Lab Contact: Veronica Bontot		Date: 11/13/2008 Carrier:		POC No: 2 of 2, 6005					
Analyte(s) <input type="checkbox"/> Cumulative (s) <input type="checkbox"/> Seasonal (s) <input type="checkbox"/> # of <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 1 day <input type="checkbox"/>		Sample Type <input type="checkbox"/> G <input type="checkbox"/> L <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> W <input type="checkbox"/> A <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input 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<input type="checkbox"/> CN <input type="checkbox"/> CO <input type="checkbox"/> CP <input type="checkbox"/> CQ <input type="checkbox"/> CR <input type="checkbox"/> CS <input type="checkbox"/> CT <input type="checkbox"/> CU <input type="checkbox"/> CV <input type="checkbox"/> CW <input type="checkbox"/> CX <input type="checkbox"/> CY <input type="checkbox"/> CZ <input type="checkbox"/> DA <input type="checkbox"/> DB <input type="checkbox"/> DC <input type="checkbox"/> DD <input type="checkbox"/> DE <input type="checkbox"/> DF <input type="checkbox"/> DG <input type="checkbox"/> DH <input type="checkbox"/> DI <input type="checkbox"/> DJ <input type="checkbox"/> DK <input type="checkbox"/> DL <input type="checkbox"/> DM <input type="checkbox"/> DN <input type="checkbox"/> DO <input type="checkbox"/> DP <input type="checkbox"/> DQ <input type="checkbox"/> DR <input type="checkbox"/> DS <input type="checkbox"/> DT <input type="checkbox"/> DU <input type="checkbox"/> DV <input 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<input type="checkbox"/> FG <input type="checkbox"/> FH <input type="checkbox"/> FI <input type="checkbox"/> FJ <input type="checkbox"/> FK <input type="checkbox"/> FL <input type="checkbox"/> FM <input type="checkbox"/> FN <input type="checkbox"/> FO <input type="checkbox"/> FP <input type="checkbox"/> FQ <input type="checkbox"/> FR <input type="checkbox"/> FS <input type="checkbox"/> FT <input type="checkbox"/> FU <input type="checkbox"/> FV <input type="checkbox"/> FW <input type="checkbox"/> FX <input type="checkbox"/> FY <input type="checkbox"/> FZ <input type="checkbox"/> GA <input type="checkbox"/> GB <input type="checkbox"/> GC <input type="checkbox"/> GD <input type="checkbox"/> GE <input type="checkbox"/> GF <input type="checkbox"/> GG <input type="checkbox"/> GH <input type="checkbox"/> GI <input type="checkbox"/> GJ <input type="checkbox"/> GK <input type="checkbox"/> GL <input type="checkbox"/> GM <input type="checkbox"/> GN <input type="checkbox"/> GO <input 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type="checkbox"/> RP <input type="checkbox"/> RQ <input type="checkbox"/> RR <input type="checkbox"/> RS <input type="checkbox"/> RT <input type="checkbox"/> RU <input type="checkbox"/> RV <input type="checkbox"/> RW <input type="checkbox"/> RX <input type="checkbox"/> RY <input type="checkbox"/> RZ <input type="checkbox"/> SA <input type="checkbox"/> SB <input type="checkbox"/> SC <input type="checkbox"/> SD <input type="checkbox"/> SE <input type="checkbox"/> SF <input type="checkbox"/> SG <input type="checkbox"/> SH <input type="checkbox"/> SI <input type="checkbox"/> SJ <input type="checkbox"/> SK <input type="checkbox"/> SL <input type="checkbox"/> SM <input type="checkbox"/> SN <input type="checkbox"/> SO <input type="checkbox"/> SP <input type="checkbox"/> SQ <input type="checkbox"/> SR <input type="checkbox"/> SS <input type="checkbox"/> ST <input type="checkbox"/> SU <input type="checkbox"/> SV <input type="checkbox"/> SW <input type="checkbox"/> SX <input type="checkbox"/> SY 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type="checkbox"/> ZV <input type="checkbox"/> ZW <input type="checkbox"/> ZX <input type="checkbox"/> ZY <input type="checkbox"/> ZZ		Sample Date 11/13/2008 11/13/2008 11/13/2008 11/13/2008 11/13/2008 11/13/2008		Sample Time 15:25 16:40 16:00 11:10 16:40 -		Sample Type G G G G G G		Matrix Water Water Water Water Water		# of Containers 3 3 4 3 3 3	
Preservation Used: <input type="checkbox"/> Ice, <input type="checkbox"/> HCl, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> , <input type="checkbox"/> H <sub>2</sub> O <sub>2</sub> , <input type="checkbox"/> H <sub>2</sub> PO <sub>4</sub> , <input type="checkbox"/> Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the samples in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Not Used <input type="checkbox"/> Disposable <input type="checkbox"/> Not Used Special Instructions, QC Requirements & Comments:													
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Completed by: <i>[Signature]</i> Company: <i>Pittsburgh</i> Completed by: <i>[Signature]</i> Company: <i>Chlorine Addition</i>		Custody Seal No.: Company: <i>GA, Inc.</i> Company: <i>Chlorine Addition</i> Company: <i>905-25-8991</i>		Cooler Temp. (°C) Client: <i>[Signature]</i> Cooler Temp. (°C) Lab: <i>[Signature]</i> Returned to Client: <i>[Signature]</i> Returned to Lab: <i>[Signature]</i>		Term ID No.: Term ID No.: <i>905-25-8991</i> Term ID No.: <i>16-20245</i>		Form No. CA-C-W-603, Rev. 4-20, dated 3/28/2018					



Pittsburgh, PA 15204-2007  
phone 412-663-7000 fax 412-663-3488  
REDC Flag

Regulatory Programs:  Air  Lead  PCB  Other

Client Contact		Project Manager: Doree Pirelli Tel/Fax: 348-538-4448	
Site Contact: Kevin Mikulava		Date: 8/15/2020	
Lab Contact: Veronica Borstad		Carrier	
Analysis Turnaround Time <input type="checkbox"/> Onsite only <input type="checkbox"/> Expedited only		COC No: 1 of 1 COCs	
TAT (affected run below): <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sampler: For Lab Use Only: Wash in Client Supplying	
Project Name: Plant Scherer Ash Pond		SI No:	
Site Location: Atlanta, GA 30309		Barcode: 180-111111 Chain of Custody	
Project Manager: Doree Pirelli		Date: 8/15/2020	
Tel/Fax: 348-538-4448		Carrier	

Sample Identification	Sample Date	Sample Time	Sampler Type (Pumps, Borehole)	# of Matrix Cust.	Cooler Temp. (C)	Cooler Temp. (F)	Chain of Custody				Sample Specific Notes
							1	2	3	4	
SOHC-14	8/15/2020	8:28	Q	Water 3	3	X	X	X	X	X	pH = 8.01
SOHC-15	8/15/2020	10:40	Q	Water 3	3	X	X	X	X	X	pH = 4.87
SOHC-16	8/15/2020	11:00	Q	Water 3	3	X	X	X	X	X	pH = 5.56
SOHC-17	8/15/2020	13:40	Q	Water 3	3	X	X	X	X	X	pH = 8.42
SOHC-18	8/15/2020	15:00	Q	Water 3	3	X	X	X	X	X	pH = 4.94
SOHC-19	8/15/2020	15:00	Q	Water 3	3	X	X	X	X	X	pH = 5.51
SOHC-20	8/15/2020	15:00	Q	Water 3	3	X	X	X	X	X	pH = 4.30
SOHC-21	8/15/2020	15:40	Q	Water 3	3	X	X	X	X	X	pH = 8.18
SOHC-22	8/15/2020	16:20	Q	Water 4	4	X	X	X	X	X	Extra sodium; pH = 5.65
SOHC-23	8/15/2020	14:30	Q	Water 3	3	X	X	X	X	X	pH = 5.89
FD-1 (AP)	-	-	Q	Water 3	3	X	X	X	X	X	
EB-2 (AP)	8/15/2020	13:40	Q	Water 3	3	X	X	X	X	X	
FB-2 (AP)	8/15/2020	8:00	Q	Water 3	3	X	X	X	X	X	

Preservation Used: 1x Ice, 2x HCl, 2x HNO<sub>3</sub>, 4x H<sub>2</sub>SO<sub>4</sub>, 4x H<sub>2</sub>O<sub>2</sub>, 4x H<sub>2</sub>O

Sample Disposal: [A] After being analyzed if samples are retained longer than 1 month)

Available Hazard Identification:  No Hazard  Hazardous  Biohazard  Other

Special Instructions/RC Requirements & Comments:

Cooling Beads Initiated:  No  Yes

Relinquished by: Jacob Hindsback Date/Time: 9/16/20

Received by: Company Date/Time: 9/30

Company: Company

Company: Company

Company: Company

Cooling Temp. (C): 3 Carrier: EM Company: EM Date/Time: 8:53

Accounted for by: Accounting Date/Time: 8/17/20

Accounted for in laboratory by: Accounting Date/Time: 9/30



euotins

Environment Testing  
TestAmerica

SHIP DATE: 15 SEP 2020  
ACTIVITY: 1516 0325 0177  
CAGI MAIL CONFERENCE

BILL RECEIPT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH

301 ALPHA DR.

RIDC PARK

PITTSBURGH PA 15238

(408) 989-7000

REF: SOUTHERN CO



FedEx  
Express



THU - 17 SEP 3:00P  
STANDARD OVERNIGHT

15238  
PA-US PIT

NA AGCA

Uncorrected temp  
Thermometer ID

3.8  
14 °C

CF 0 Initials IT



euofins

Environment Testing  
TestAmerica

SHIP DATE: 15 SEP 2020  
ACTIVITY: 1516 0325 0188  
CAGI MAIL CONFERENCE

BILL RECEIPT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH

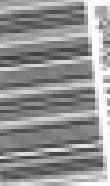
301 ALPHA DR.

RIDC PARK

PITTSBURGH PA 15238

(408) 989-7000

REF: SOUTHERN CO



1516 0325 0188

THU - 17 SEP 3:00P  
STANDARD OVERNIGHT

1516 9325 0188

NA AGCA

Uncorrected temp  
Thermometer ID

1.8  
14 °C

CF 0 Initials IT



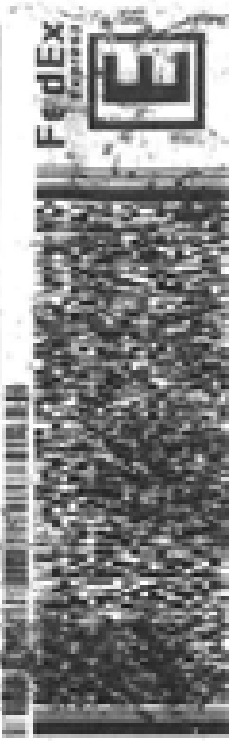
- 1
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- 13

ORIGINAL DESTROYED  
 ORDER NO. 1516-8325-0177  
 ORDER DATE: 08/11/2020  
 ORDER TIME: 11:24:00 AM  
 BILL RECEIPT

TO: **SAMPLE RECEIVING**  
**EUROFINS TESTAMERICA PITTSBURGH**  
**301 ALPHA DR.**  
**RIDC PARK**  
**PITTSBURGH PA 15238**  
 15238 PA 15238  
 REC: SOUTHERN CO



1 of 4  
 THU - 17 SEP 3:00  
 STANDARD OVERNIGHT  
 -15238 PA - US PIT

4.0 °C  
 1.2  
 Uncorrected Temp Thermometer ID  
 Initials  
 CF

NA AGCA  
 1516 8325 0177  
 15238 PA - US PIT

TO: **SAMPLE RECEIVING**  
**EUROFINS TESTAMERICA PITTSBURGH**  
**301 ALPHA DR.**  
**RIDC PARK**  
**PITTSBURGH PA 15238**  
 15238 PA 15238  
 REC: SOUTHERN CO



1 of 4  
 THU - 17 SEP 3:00  
 STANDARD OVERNIGHT  
 -15238 PA - US PIT

3.2 °C  
 Uncorrected Temp Thermometer ID  
 Initials  
 CF

NA AGCA  
 1516 8325 0177  
 15238 PA - US PIT



# Chain of Custody Record

**Client Information (Sub-Contract Lab)**  
 Company: TestAmerica Laboratories, Inc.  
 Address: 13715 Rider Trail North, Earth City, MO 63043  
 Phone: 314-296-8086 (Tel) 314-296-8153 (Fax)  
 Project Name: CWC Plant Surface Ash Pond  
 Job: CWC Plant Surface

Lab File: 180-411929-3  
 Report: Final  
 Date of Report: [Blank]  
 Sheet: [Blank] / Total of Sheets: [Blank]  
 Page 2 of 2

Sample Identification - (Client ID, Lab ID)	Sample Date	Sample Time	Sample Type (Container, Original)	Matrix (Soil, Insect, etc)	Analysis Requested		Special Instructions/Notes
					100, 1000, 10000, 25 Standard Target(s)	100, 1000, 10000, 25 Standard Target(s)	
SOWC-8 (180-111940-18)	9/14/20	11:40	Water	Water	X	X	
SOWC-9 (180-111940-17)	9/14/20	11:50	Water	Water	X	X	
SOWC-10 (180-111940-12)	9/14/20	12:35	Water	Water	X	X	
SOWC-11 (180-111940-15)	9/14/20	12:45	Water	Water	X	X	
SOWC-12 (180-111940-16)	9/14/20	12:50	Water	Water	X	X	
SOWC-13 (180-111940-15)	9/14/20	12:50	Water	Water	X	X	
WB-1 (APF) (180-111940-18)	9/14/20	12:45	Water	Water	X	X	
WB-1 (APF) (180-111940-17)	9/14/20	12:45	Water	Water	X	X	
WB-1 (APF) (180-111940-18)	9/14/20	12:50	Water	Water	X	X	

**Additional Information:** Total Analyzed: 10, Total Standard: 10, Total Samples: 10

**Analysis Requested:** As requested by client.

**Preservation Codes:** M - None, N - None, O - None, P - None, Q - None, R - None, S - None, T - None, U - None, V - None, W - None, X - None, Y - None, Z - None, AA - None, AB - None, AC - None, AD - None, AE - None, AF - None, AG - None, AH - None, AI - None, AJ - None, AK - None, AL - None, AM - None, AN - None, AO - None, AP - None, AQ - None, AR - None, AS - None, AT - None, AU - None, AV - None, AW - None, AX - None, AY - None, AZ - None, BA - None, BB - None, BC - None, BD - None, BE - None, BF - None, BG - None, BH - None, BI - None, BJ - None, BK - None, BL - None, BM - None, BN - None, BO - None, BP - None, BQ - None, BR - None, BS - None, BT - None, BU - None, BV - None, BW - None, BX - None, BY - None, BZ - None, CA - None, CB - None, CC - None, CD - None, CE - None, CF - None, CG - None, CH - None, CI - None, CJ - None, CK - None, CL - None, CM - None, CN - None, CO - None, CP - None, CQ - None, CR - None, CS - None, CT - None, CU - None, CV - None, CW - None, CX - None, CY - None, CZ - None, DA - None, DB - None, DC - None, DD - None, DE - None, DF - None, DG - None, DH - None, DI - None, DJ - None, DK - None, DL - None, DM - None, DN - None, DO - None, DP - None, DQ - None, DR - None, DS - None, DT - None, DU - None, DV - None, DW - None, DX - None, DY - None, DZ - None, EA - None, EB - None, EC - None, ED - None, EE - None, EF - None, EG - None, EH - None, EI - None, EJ - None, EK - None, EL - None, EM - None, EN - None, EO - None, EP - None, EQ - None, ER - None, ES - None, ET - None, EU - None, EV - None, EW - None, EX - None, EY - None, EZ - None, FA - None, FB - None, FC - None, FD - None, FE - None, FF - None, FG - None, FH - None, FI - None, FJ - None, FK - None, FL - None, FM - None, FN - None, FO - None, FP - None, FQ - None, FR - None, FS - None, FT - None, FU - None, FV - None, FW - None, FX - None, FY - None, FZ - None, GA - None, GB - None, GC - None, GD - None, GE - None, GF - None, GG - None, GH - None, GI - None, GJ - None, GK - None, GL - None, GM - None, GN - None, GO - None, GP - None, GQ - None, GR - None, GS - None, GT - None, GU - None, GV - None, GW - None, GX - None, GY - None, GZ - None, HA - None, HB - None, HC - None, HD - None, HE - None, HF - None, HG - None, HH - None, HI - None, HJ - None, HK - None, HL - None, HM - None, HN - None, HO - None, HP - None, HQ - None, HR - None, HS - None, HT - None, HU - None, HV - None, HW - None, HX - None, HY - None, HZ - None, IA - None, IB - None, IC - None, ID - None, IE - None, IF - None, IG - None, IH - None, II - None, IJ - None, IK - None, IL - None, IM - None, IN - None, IO - None, IP - None, IQ - None, IR - None, IS - None, IT - None, IU - None, IV - None, IW - None, IX - None, IY - None, IZ - None, JA - None, JB - None, JC - None, JD - None, JE - None, JF - None, JG - None, JH - None, JI - None, JJ - None, JK - None, JL - None, JM - None, JN - None, JO - None, JP - None, JQ - None, JR - None, JS - None, JT - None, JU - None, JV - None, JW - None, JX - None, JY - None, JZ - None, KA - None, KB - None, KC - None, KD - None, KE - None, KF - None, KG - None, KH - None, KI - None, KJ - None, KK - None, KL - None, KM - None, KN - None, KO - None, KP - None, KQ - None, KR - None, KS - None, KT - None, KU - None, KV - None, KW - None, KX - None, KY - None, KZ - None, LA - None, LB - None, LC - None, LD - None, LE - None, LF - None, LG - None, LH - None, LI - None, LJ - None, LK - None, LL - None, LM - None, LN - None, LO - None, LP - None, LQ - None, LR - None, LS - None, LT - None, LU - None, LV - None, LW - None, LX - None, LY - None, LZ - None, MA - None, MB - None, MC - None, MD - None, ME - None, MF - None, MG - None, MH - None, MI - None, MJ - None, MK - None, ML - None, MM - None, MN - None, MO - None, MP - None, MQ - None, MR - None, MS - None, MT - None, MU - None, MV - None, MW - None, MX - None, MY - None, MZ - None, NA - None, NB - None, NC - None, ND - None, NE - None, NF - None, NG - None, NH - None, NI - None, NJ - None, NK - None, NL - None, NM - None, NO - None, NP - None, NQ - None, NR - None, NS - None, NT - None, NU - None, NV - None, NW - None, NX - None, NY - None, NZ - None, OA - None, OB - None, OC - None, OD - None, OE - None, OF - None, OG - None, OH - None, OI - None, OJ - None, OK - None, OL - None, OM - None, ON - None, OO - None, OP - None, OQ - None, OR - None, OS - None, OT - None, OU - None, OV - None, OW - None, OX - None, OY - None, OZ - None, PA - None, PB - None, PC - None, PD - None, PE - None, PF - None, PG - None, PH - None, PI - None, PJ - None, PK - None, PL - None, PM - None, PN - None, PO - None, PP - None, PQ - None, PR - None, PS - None, PT - None, PU - None, PV - None, PW - None, PX - None, PY - None, PZ - None, QA - None, QB - None, QC - None, QD - None, QE - None, QF - None, QG - None, QH - None, QI - None, QJ - None, QK - None, QL - None, QM - None, QN - None, QO - None, QP - None, QQ - None, QR - None, QS - None, QT - None, QU - None, QV - None, QW - None, QX - None, QY - None, QZ - None, RA - None, RB - None, RC - None, RD - None, RE - None, RF - None, RG - None, RH - None, RI - None, RJ - None, RK - None, RL - None, RM - None, RN - None, RO - None, RP - None, RQ - None, RR - None, RS - None, RT - None, RU - None, RV - None, RW - None, RX - None, RY - None, RZ - None, SA - None, SB - None, SC - None, SD - None, SE - None, SF - None, SG - None, SH - None, SI - None, SJ - None, SK - None, SL - None, SM - None, SN - None, SO - None, SP - None, SQ - None, SR - None, SS - None, ST - None, SU - None, SV - None, SW - None, SX - None, SY - None, SZ - None, TA - None, TB - None, TC - None, TD - None, TE - None, TF - None, TG - None, TH - None, TI - None, TJ - None, TK - None, TL - None, TM - None, TN - None, TO - None, TP - None, TQ - None, TR - None, TS - None, TT - None, TU - None, TV - None, TW - None, TX - None, TY - None, TZ - None, UA - None, UB - None, UC - None, UD - None, UE - None, UF - None, UG - None, UH - None, UI - None, UJ - None, UK - None, UL - None, UM - 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None, YA - None, YB - None, YC - None, YD - None, YE - None, YF - None, YG - None, YH - None, YI - None, YJ - None, YK - None, YL - None, YM - None, YN - None, YO - None, YP - None, YQ - None, YR - None, YS - None, YT - None, YU - None, YV - None, YW - None, YX - None, YY - None, YZ - None, ZA - None, ZB - None, ZC - None, ZD - None, ZE - None, ZF - None, ZG - None, ZH - None, ZI - None, ZJ - None, ZK - None, ZL - None, ZM - None, ZN - None, ZO - None, ZP - None, ZQ - None, ZR - None, ZS - None, ZT - None, ZU - None, ZV - None, ZW - None, ZX - None, ZY - None, ZZ - None

**Signature/Date:**  
 Collected by: [Signature] Date: 9/17/20  
 Analyzed by: [Signature] Date: 9/18/20  
 Custody Seal Intact: Yes

**Shipping Information:**  
 Method of Transport: FedEx  
 Label No: 9501 1820 578  
 Date of Departure: SEP 18 2020 07:28  
 Company: EFA-511



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111040-2

**Login Number: 111040**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111040-2

**Login Number: 111040**

**List Number: 2**

**Creator: Mazariegos, Leonel A**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 09/18/20 05:26 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111040-2

**Login Number: 111111**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111040-2

**Login Number: 111111**

**List Number: 2**

**Creator: Boyd, Jacob C**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 09/19/20 02:02 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**APPENDIX C**

**FIELD DATA FORMS**  
**FEBRUARY 2020**



Product Name: Low-Flow System

Date: 2020-02-13 13:23:57

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642533  
Turbidity Make/Model LaMotte 2020WE

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type poly  
Tubing Diameter .170 in  
Tubing Length 44.60 ft

Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-1  
Well diameter 2 in  
Well Total Depth 53.40 ft  
Screen Length 10 ft  
Depth to Water 39.32 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5205119 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.8 in  
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:59:56	600.02	18.04	5.08	30.47	0.99	39.93	0.68	41.89
Last 5	13:04:56	900.02	18.02	5.09	30.54	0.67	40.05	0.74	40.72
Last 5	13:09:56	1200.02	18.00	5.11	30.64	0.30	39.98	0.79	39.34
Last 5	13:14:56	1500.02	17.95	5.09	30.75	0.25	39.96	0.83	41.03
Last 5	13:19:56	1800.02	17.91	5.09	30.86	0.21	39.97	0.86	39.83
Variance 0			-0.02	0.01	0.10			0.05	-1.38
Variance 1			-0.06	-0.02	0.11			0.04	1.69
Variance 2			-0.04	0.00	0.11			0.02	-1.20

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-13 14:15:09

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642533  
Turbidity Make/Model LaMotte 2020WE

Pump Information:

Pump Model/Type QED micropurge  
Tubing Type poly  
Tubing Diameter .170 in  
Tubing Length 44.60 ft

Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-2  
Well diameter 2 in  
Well Total Depth 53.40 ft  
Screen Length 10 ft  
Depth to Water 39.32 ft

Pumping Information:

Final Pumping Rate 225 mL/min  
Total System Volume 0.5205119 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 28.8 in  
Total Volume Pumped 6.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:50:02	300.03	18.04	6.31	124.69	1.22	40.00	4.24	51.90
Last 5	13:55:02	600.02	18.01	6.41	124.91	0.90	40.33	3.95	52.32
Last 5	14:00:02	900.02	18.01	6.53	124.91	0.41	40.58	4.02	50.66
Last 5	14:05:02	1200.03	17.95	6.59	124.83	0.34	40.57	4.24	51.44
Last 5	14:10:02	1500.03	17.92	6.59	124.84	0.33	40.48	4.38	52.75
Variance 0			0.00	0.12	0.00			0.07	-1.66
Variance 1			-0.06	0.05	-0.09			0.22	0.78
Variance 2			-0.03	0.00	0.02			0.14	1.32

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-18 10:01:30

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 44.7 ft

Pump placement from TOC 44.7 ft

Well Information:

Well ID SGWA-3  
Well diameter 2 in  
Well Total Depth 52.08 ft  
Screen Length 10 ft  
Depth to Water 32.06 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.684515 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:35:42	300.08	17.05	5.90	90.32	2.13	33.73	4.44	91.62
Last 5	09:40:42	600.01	17.24	5.75	89.53	0.78	35.02	4.21	88.90
Last 5	09:45:42	900.01	17.29	5.74	87.84	0.55	35.83	3.95	87.09
Last 5	09:50:42	1200.01	16.69	5.75	85.89	0.70	36.02	3.87	85.74
Last 5	09:55:42	1500.00	16.71	5.76	86.92	0.49	36.02	3.86	84.96
Variance 0			0.05	-0.01	-1.70			-0.26	-1.81
Variance 1			-0.60	0.01	-1.95			-0.09	-1.35
Variance 2			0.02	0.01	1.03			-0.01	-0.78

Notes

200ml/min 930-945. 100ml/min 945-955. FD-1 AP here

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-18 11:29:18

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 54.8 ft

Pump placement from TOC 54.8 ft

Well Information:

Well ID SGWA-4  
Well diameter 2 in  
Well Total Depth 63.2 ft  
Screen Length 10 ft  
Depth to Water 51.55 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.7295956 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 19.08 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:06:39	600.02	16.36	6.49	175.67	1.46	52.60	7.03	93.21
Last 5	11:11:39	900.01	16.49	6.41	175.57	0.75	52.84	6.52	91.69
Last 5	11:16:39	1200.00	16.40	6.40	175.10	0.98	52.98	6.40	89.72
Last 5	11:21:38	1500.00	16.54	6.39	174.73	0.78	53.09	6.31	89.15
Last 5	11:26:38	1799.99	16.62	6.38	174.68	0.67	53.14	6.14	88.50
Variance 0			-0.09	-0.01	-0.47			-0.13	-1.97
Variance 1			0.14	-0.01	-0.37			-0.08	-0.57
Variance 2			0.08	-0.01	-0.06			-0.18	-0.65

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-17 15:41:57

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 24.36 ft

Pump placement from TOC 24.36 ft

Well Information:

Well ID SGWA-5  
Well diameter 2 in  
Well Total Depth 33.1 ft  
Screen Length 10 ft  
Depth to Water 15.54 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.593729 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10.44 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:19:28	600.02	17.21	5.71	50.33	0.34	16.69	4.12	81.45
Last 5	15:24:28	900.02	16.90	5.69	51.58	0.31	16.47	4.87	83.42
Last 5	15:29:28	1200.01	16.92	5.72	51.85	0.44	16.41	3.91	81.53
Last 5	15:34:28	1500.00	16.89	5.72	51.48	0.34	16.41	3.61	80.92
Last 5	15:39:28	1799.99	16.91	5.73	51.42	0.30	16.41	3.64	80.55
Variance 0			0.02	0.03	0.28			-0.96	-1.90
Variance 1			-0.03	-0.00	-0.37			-0.30	-0.60
Variance 2			0.02	0.00	-0.06			0.03	-0.37

Notes

300ml/L for 1510-1520, 200ml/min 1520-1540

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-13 15:09:54

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642533  
Turbidity Make/Model LaMotte 2020WE

Pump Information:

Pump Model/Type QED micropurge  
Tubing Type poly  
Tubing Diameter .170 in  
Tubing Length 44.60 ft

Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-24  
Well diameter 2 in  
Well Total Depth 42.90 ft  
Screen Length 10 ft  
Depth to Water 34.80 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5205119 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 15.6 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:47:39	300.03	18.01	6.33	147.56	4.09	14.48	1.88	57.34
Last 5	14:52:39	600.02	17.99	6.25	147.38	5.13	14.50	1.81	58.42
Last 5	14:57:39	900.03	18.00	6.22	147.26	4.60	14.50	1.83	57.05
Last 5	15:02:39	1200.03	18.03	6.24	146.86	3.81	14.49	1.82	56.62
Last 5	15:07:39	1500.03	18.04	6.24	146.75	3.80	14.50	1.75	57.21
Variance 0			0.01	-0.03	-0.12			0.02	-1.37
Variance 1			0.03	0.02	-0.39			-0.02	-0.43
Variance 2			0.01	0.00	-0.11			-0.06	0.60

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-17 16:43:17

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 39.75 ft

Pump placement from TOC 39.75 ft

Well Information:

Well ID SGWA-25  
Well diameter 2 in  
Well Total Depth 48.00 ft  
Screen Length 10 ft  
Depth to Water 28.45 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6624211 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.96 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:21:28	600.04	16.84	6.12	103.70	3.73	28.73	3.83	78.93
Last 5	16:26:28	900.01	16.89	6.11	104.03	3.28	28.73	1.63	76.94
Last 5	16:31:28	1200.00	16.87	6.09	104.59	3.30	28.75	1.36	76.52
Last 5	16:36:28	1500.00	16.91	6.09	104.81	3.11	28.78	1.26	75.47
Last 5	16:41:30	1801.99	16.90	6.10	104.99	2.78	28.78	1.17	74.29
Variance 0			-0.02	-0.02	0.55			-0.27	-0.42
Variance 1			0.04	0.00	0.22			-0.09	-1.05
Variance 2			-0.01	0.01	0.18			-0.10	-1.19

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-18 13:45:10

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 19.21 ft

Pump placement from TOC 19.21 ft

Well Information:

Well ID SGWC-6  
Well diameter 2 in  
Well Total Depth 27.6 ft  
Screen Length 10 ft  
Depth to Water 15.59 ft

Pumping Information:

Final Pumping Rate 120 mL/min  
Total System Volume 0.5707424 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 23.52 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:22:51	300.02	17.14	6.42	115.09	1.94	17.16	3.27	89.94
Last 5	13:27:51	600.02	17.01	6.34	114.14	1.15	17.31	2.52	87.90
Last 5	13:32:51	900.00	16.91	6.32	114.17	0.98	17.39	2.36	86.30
Last 5	13:37:52	1201.01	16.94	6.32	114.11	0.90	17.45	2.29	85.08
Last 5	13:42:52	1501.00	16.96	6.32	114.18	1.06	17.55	2.21	83.86
Variance 0			-0.09	-0.01	0.03			-0.17	-1.60
Variance 1			0.03	-0.01	-0.05			-0.07	-1.22
Variance 2			0.02	-0.00	0.07			-0.07	-1.22

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2020-02-18 14:40:31

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 29.75 ft

Pump placement from TOC 29.75 ft

Well Information:

Well ID SGWC-7  
Well diameter 2 in  
Well Total Depth 37.7 ft  
Screen Length 10 ft  
Depth to Water 14.87 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6177869 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.2 in  
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:28:32	300.07	17.88	6.35	298.44	1.63	15.22	0.73	67.44
Last 5	14:33:32	600.01	17.97	6.35	295.29	1.54	15.22	0.25	61.27
Last 5	14:38:32	900.01	17.97	6.35	288.99	0.95	15.22	0.32	56.05
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.09	-0.00	-3.14			-0.48	-6.18
Variance 2			0.00	0.00	-6.30			0.07	-5.22

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-18 15:28:57

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 34.2 ft

Pump placement from TOC 34.2 ft

Well Information:

Well ID SGWC-8  
Well diameter 2 in  
Well Total Depth 42.6 ft  
Screen Length 10 ft  
Depth to Water 22.73 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6376491 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.16 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:07:39	300.03	17.70	6.48	573.20	0.97	22.91	2.71	48.07
Last 5	15:12:39	600.01	17.88	6.42	562.69	0.89	22.91	2.20	48.68
Last 5	15:17:39	900.01	17.88	6.39	558.20	0.92	22.91	1.93	49.73
Last 5	15:22:39	1200.00	17.88	6.39	555.71	1.01	22.91	1.81	50.24
Last 5	15:27:39	1499.99	17.83	6.39	553.02	0.88	22.91	1.76	51.02
Variance 0			0.00	-0.03	-4.49			-0.26	1.05
Variance 1			-0.00	-0.00	-2.49			-0.12	0.51
Variance 2			-0.04	-0.00	-2.69			-0.05	0.79

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-19 09:35:34

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9  
Well diameter 2 in  
Well Total Depth 37.8 ft  
Screen Length 10 ft  
Depth to Water 20.29 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6237903 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 14.04 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:12:51	303.06	13.07	6.36	788.32	4.68	21.55	0.60	89.39
Last 5	09:17:51	603.02	12.91	6.22	785.90	3.81	21.39	0.39	78.66
Last 5	09:22:51	903.02	12.99	6.12	788.09	3.65	21.44	0.31	72.79
Last 5	09:27:51	1203.02	13.05	6.06	786.85	2.28	21.35	0.31	69.14
Last 5	09:32:51	1503.03	13.07	6.03	786.14	2.14	21.36	0.30	66.09
Variance 0			0.08	-0.10	2.19			-0.08	-5.87
Variance 1			0.06	-0.06	-1.24			-0.00	-3.65
Variance 2			0.03	-0.03	-0.71			-0.01	-3.05

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-19 10:33:04

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED WellWizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 24.2 ft

Pump placement from TOC 24.2 ft

Well Information:

Well ID SGWC-10  
Well diameter 2 in  
Well Total Depth 32.6 ft  
Screen Length 10 ft  
Depth to Water 17.24 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5735961 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 13.08 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:09:14	600.02	12.30	5.17	64.87	0.95	18.11	1.22	105.83
Last 5	10:14:14	900.02	12.24	5.10	64.65	0.81	18.25	1.30	101.90
Last 5	10:19:14	1200.03	12.25	5.06	64.80	0.59	18.37	1.24	98.68
Last 5	10:24:14	1500.02	12.30	5.07	64.86	0.62	18.31	1.15	94.77
Last 5	10:29:14	1800.03	12.30	5.07	64.95	0.69	18.33	1.12	91.80
Variance 0			0.02	-0.04	0.15			-0.06	-3.22
Variance 1			0.05	0.01	0.06			-0.09	-3.91
Variance 2			0.00	0.00	0.09			-0.03	-2.97

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-18 10:38:28

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well  
Tubing Type Wizard  
Tubing Diameter polyethylene  
Tubing Length .170 in  
34.3 ft

Pump placement from TOC 34.3 ft

Well Information:

Well ID SGWC-11  
Well diameter 2 in  
Well Total Depth 42.70 ft  
Screen Length 10 ft  
Depth to Water 18.56 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5460887 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 17.64 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:13:45	900.02	11.22	5.09	60.05	1.59	20.01	0.85	78.18
Last 5	10:18:45	1200.01	10.31	5.06	61.02	1.54	20.04	1.48	73.64
Last 5	10:23:45	1500.03	10.07	5.09	61.12	1.36	20.03	1.63	70.42
Last 5	10:28:45	1800.02	9.93	5.10	61.56	1.40	20.02	1.70	68.04
Last 5	10:33:45	2100.03	9.85	5.09	62.21	1.29	20.03	1.76	66.17
Variance 0			-0.24	0.03	0.10			0.15	-3.21
Variance 1			-0.14	0.00	0.44			0.07	-2.39
Variance 2			-0.08	-0.00	0.65			0.06	-1.86

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-19 09:41:41

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12  
Well diameter 2 in  
Well Total Depth 50.2 ft  
Screen Length 10 ft  
Depth to Water 14.41 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6718835 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 49.44 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:19:54	900.01	18.86	6.04	285.77	1.07	18.55	0.98	65.15
Last 5	09:24:54	1200.00	18.86	6.06	286.03	0.93	18.80	0.84	62.59
Last 5	09:29:54	1500.00	18.76	6.08	286.27	0.56	18.71	0.75	60.16
Last 5	09:34:57	1802.99	18.73	6.07	285.85	0.98	18.60	0.54	57.69
Last 5	09:39:58	2103.98	18.79	6.07	285.63	0.83	18.53	0.41	55.43
Variance 0			-0.10	0.01	0.24			-0.09	-2.43
Variance 1			-0.03	-0.01	-0.42			-0.21	-2.47
Variance 2			0.07	0.00	-0.22			-0.13	-2.26

Notes

Changed pump rate from 300 to 200 at 0925.

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-19 12:36:51

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-13  
Well diameter 2 in  
Well Total Depth 37.50 ft  
Screen Length 10 ft  
Depth to Water 3.59 ft

Pumping Information:

Final Pumping Rate 225 mL/min  
Total System Volume 0.6199292 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 19.56 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:12:34	1200.02	12.31	5.93	280.87	2.53	4.83	1.43	14.39
Last 5	12:17:34	1500.01	12.35	5.93	282.19	1.98	4.87	1.22	10.62
Last 5	12:22:34	1800.03	12.39	5.94	280.18	1.83	4.95	1.10	11.53
Last 5	12:27:34	2100.03	12.36	5.94	280.98	1.88	5.10	1.00	15.12
Last 5	12:32:34	2400.03	12.48	5.94	282.11	1.99	5.22	0.95	20.35
Variance 0			0.04	0.00	-2.01			-0.11	0.91
Variance 1			-0.03	0.00	0.80			-0.10	3.59
Variance 2			0.12	0.00	1.13			-0.06	5.23

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-19 13:20:48

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED  
Tubing Type polyethylene  
Tubing Diameter .250 in  
Tubing Length 30.24 ft

Pump placement from TOC 30.24 ft

Well Information:

Well ID SGWC-14  
Well diameter 2 in  
Well Total Depth 38.5 ft  
Screen Length 10 ft  
Depth to Water 9.38 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6318986 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.24 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:58:20	300.03	11.33	5.89	494.46	1.06	9.40	1.13	4.39
Last 5	13:03:20	600.02	11.47	5.83	495.74	0.98	9.41	0.70	30.27
Last 5	13:08:20	900.02	11.56	5.79	497.09	1.04	9.41	0.51	39.07
Last 5	13:13:20	1200.02	11.65	5.77	497.71	1.35	9.41	0.50	43.60
Last 5	13:18:20	1500.03	11.64	5.75	499.38	1.22	9.41	0.44	46.92
Variance 0			0.09	-0.04	1.35			-0.19	8.80
Variance 1			0.09	-0.02	0.62			-0.01	4.52
Variance 2			-0.01	-0.02	1.67			-0.06	3.33

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2020-02-19 14:12:13

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15  
Well diameter 2 in  
Well Total Depth 48.20 ft  
Screen Length 10 ft  
Depth to Water 26.36 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.7227308 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.6 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:48:38	300.02	13.03	4.71	520.56	1.54	26.37	2.82	160.49
Last 5	13:53:38	600.02	13.24	4.64	519.61	1.75	26.38	2.09	172.63
Last 5	13:58:38	900.02	13.18	4.63	518.55	3.81	26.40	1.90	186.36
Last 5	14:03:38	1200.02	13.12	4.61	519.04	3.06	26.40	1.80	199.68
Last 5	14:08:38	1500.03	13.21	4.58	520.76	2.82	26.41	1.78	212.53
Variance 0			-0.06	-0.01	-1.05			-0.19	13.73
Variance 1			-0.06	-0.02	0.49			-0.10	13.32
Variance 2			0.08	-0.03	1.72			-0.02	12.85

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-19 15:10:46

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16  
Well diameter 2 in  
Well Total Depth 43.3 ft  
Screen Length 10 ft  
Depth to Water 17.70 ft

Pumping Information:

Final Pumping Rate 225 mL/min  
Total System Volume 0.6741776 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.2 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:49:20	1200.03	13.26	5.17	142.04	15.30	17.80	3.29	113.65
Last 5	14:54:20	1500.03	13.08	5.16	142.82	10.70	17.80	3.26	111.84
Last 5	14:59:20	1800.03	13.08	5.16	142.98	8.81	17.80	3.26	110.68
Last 5	15:04:20	2100.03	13.08	5.16	143.49	6.77	17.80	3.26	110.14
Last 5	15:09:20	2400.03	13.14	5.16	143.66	4.97	17.80	3.26	110.70
Variance 0			0.00	0.00	0.16			-0.00	-1.16
Variance 1			0.00	-0.00	0.50			0.00	-0.54
Variance 2			0.06	0.00	0.17			0.00	0.56

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-19 15:56:09

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17  
Well diameter 2 in  
Well Total Depth 27.6 ft  
Screen Length 10 ft  
Depth to Water 0.3 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.5257186 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.8 in  
Total Volume Pumped 6.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:34:12	300.03	12.48	6.02	578.16	7.04	0.70	0.94	-27.57
Last 5	15:39:12	600.03	12.54	6.10	580.28	5.51	0.70	0.45	3.22
Last 5	15:44:12	900.05	12.56	6.13	580.81	2.99	0.70	0.32	17.43
Last 5	15:49:12	1200.03	12.50	6.15	582.19	2.49	0.70	0.28	26.49
Last 5	15:54:12	1500.03	12.57	6.16	582.96	2.47	0.70	0.25	32.34
Variance 0			0.02	0.03	0.53			-0.13	14.21
Variance 1			-0.06	0.02	1.39			-0.05	9.06
Variance 2			0.07	0.01	0.77			-0.03	5.85

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-20 11:23:02

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 39.25 ft

Pump placement from TOC 39.25 ft

Well Information:

Well ID SGWC-18  
Well diameter 2 in  
Well Total Depth 47.60 ft  
Screen Length 10 ft  
Depth to Water 36.11 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.7188697 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 6.6 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:58:10	300.06	14.44	4.78	2248.68	2.83	36.79	1.53	182.14
Last 5	11:03:10	600.02	14.03	4.66	2245.00	2.63	36.81	1.51	173.10
Last 5	11:08:10	900.02	13.97	4.65	2246.01	2.55	36.55	1.48	161.57
Last 5	11:18:11	1501.01	14.04	4.64	2256.51	2.08	36.66	1.50	148.36
Last 5									
Variance 0			-0.40	-0.12	-3.68			-0.01	-9.04
Variance 1			-0.06	-0.02	1.01			-0.03	-11.53
Variance 2			0.07	-0.00	10.50			0.01	-13.21

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-19 16:17:11

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-19  
Well diameter 2 in  
Well Total Depth 37.4 ft  
Screen Length 10 ft  
Depth to Water 14.02 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6144392 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9.96 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:00:19	300.03	18.59	5.67	578.35	1.18	14.80	3.60	102.14
Last 5	16:05:19	600.02	18.35	5.57	579.56	1.52	14.85	2.80	102.50
Last 5	16:10:19	900.01	18.40	5.55	581.74	1.20	14.85	2.74	104.09
Last 5	16:15:19	1200.00	18.37	5.53	581.39	0.85	14.85	2.71	105.91
Last 5									
Variance 0			-0.24	-0.09	1.20			-0.81	0.36
Variance 1			0.05	-0.02	2.18			-0.05	1.59
Variance 2			-0.03	-0.02	-0.35			-0.04	1.81

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-18 15:30:46

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 19.5 ft

Pump placement from TOC 19.5 ft

Well Information:

Well ID SGWC-20  
Well diameter 2 in  
Well Total Depth 27.90 ft  
Screen Length 10 ft  
Depth to Water 11.25 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.4032283 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 40.8 in  
Total Volume Pumped 8.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:09:22	900.02	16.30	4.23	575.15	1.43	13.65	0.99	185.80
Last 5	15:14:22	1200.02	16.38	4.26	570.94	1.30	13.94	0.89	191.87
Last 5	15:19:48	1526.02	16.38	4.28	564.97	1.55	14.19	0.70	205.52
Last 5	15:24:48	1826.01	16.37	4.29	560.88	1.31	14.44	0.64	216.93
Last 5	15:29:48	2126.03	16.38	4.30	560.42	1.32	14.65	0.65	224.26
Variance 0			-0.00	0.02	-5.97			-0.19	13.64
Variance 1			-0.00	0.02	-4.08			-0.06	11.41
Variance 2			0.01	0.01	-0.46			0.01	7.33

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-18 13:59:09

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21  
Well diameter 2 in  
Well Total Depth 27.79 ft  
Screen Length 10 ft  
Depth to Water 0.0 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4021665 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.2 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:37:46	300.06	15.57	6.04	501.96	12.50	0.50	0.17	98.88
Last 5	13:42:46	600.02	15.56	6.05	500.23	11.28	0.60	0.14	117.00
Last 5	13:47:46	900.02	15.52	6.05	502.64	8.24	0.60	0.13	120.91
Last 5	13:52:46	1200.02	15.51	6.05	500.04	6.39	0.60	0.13	127.17
Last 5	13:57:46	1500.03	15.52	6.06	500.53	4.45	0.60	0.14	132.16
Variance 0			-0.04	0.00	2.40			-0.01	3.91
Variance 1			-0.01	0.00	-2.60			-0.00	6.26
Variance 2			0.00	0.01	0.49			0.00	4.98

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-02-18 13:07:11

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 44.20 ft

Pump placement from TOC 44.20 ft

Well Information:

Well ID SGWC-22  
Well diameter 2 in  
Well Total Depth 52.60 ft  
Screen Length 10 ft  
Depth to Water 23.09 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6416507 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 13.8 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:44:26	300.07	13.98	5.67	382.03	4.19	24.00	0.76	33.04
Last 5	12:49:26	600.05	14.12	5.57	385.24	3.98	24.24	0.54	50.52
Last 5	12:54:26	900.02	13.85	5.57	383.20	3.22	24.49	0.50	55.86
Last 5	12:59:26	1200.02	13.67	5.57	383.81	4.18	24.24	0.35	57.68
Last 5	13:04:26	1500.03	13.66	5.59	379.59	3.48	24.24	0.38	56.98
Variance 0			-0.27	-0.00	-2.04			-0.04	5.33
Variance 1			-0.18	-0.00	0.61			-0.16	1.82
Variance 2			-0.01	0.02	-4.22			0.04	-0.70

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2020-02-18 12:14:14

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364456  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 44.25 ft

Pump placement from TOC 44.25 ft

Well Information:

Well ID SGWC-23  
Well diameter 2 in  
Well Total Depth 52.60 ft  
Screen Length 10 ft  
Depth to Water 28.5 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6421334 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 $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:50:07	300.05	13.58	5.94	345.11	2.43	28.66	2.25	45.07
Last 5	11:55:07	600.02	13.61	5.93	343.64	3.22	28.69	2.05	57.67
Last 5	12:00:07	900.02	13.57	5.93	342.64	3.13	28.71	1.88	63.52
Last 5	12:05:07	1200.02	13.68	5.95	342.23	2.59	28.70	1.82	66.29
Last 5	12:10:07	1500.02	13.62	5.95	342.09	2.33	28.70	1.81	67.42
Variance 0			-0.03	0.01	-0.99			-0.17	5.85
Variance 1			0.11	0.02	-0.42			-0.05	2.77
Variance 2			-0.07	-0.00	-0.13			-0.02	1.13

Notes

Grab Samples

Project Plant Scherer  
Field Staff J. Waguespack/ E. Vasko/ N. Tejada

Instrument Calibration

Parameter	Units	Standard	Date: 02-05-2020 Time: 07:24			
			SmarTROLL SN 440279	SmarTROLL SN 440279	SmarTROLL SN 440279	SmarTROLL SN 344456
DO	% saturation	100	94.3	95.3	94.1	101.6
Conductivity	us/cm	4490	4178	4362	4358	4665
pH	S.U.	4.00	4.45	4.43	4.56	4.70
pH	S.U.	7.00	7.16	7.19	7.20	7.56
pH	S.U.	10.00	9.85	9.86	9.80	10.12
ORP	mV	228.00	220.6	221.1	231.9	215.6

Turbidity	Units	Standard	LaMotte SN 2283-2612	LaMotte SN 2283-2612	LaMotte SN 2283-2612	LaMotte SN 2283-2612
	NTU	0.0	0.02	0.00	0.01	0.00
	NTU	1.0	0.99	0.76	0.76	0.93
	NTU	10.0	9.87	10.50	10.97	10.70

Parameter	Units	Standard	Date: 2-13-2020 Time: 07:10			
			SmarTROLL SN 440279	SmarTROLL SN 642553	SmarTROLL SN 642613	SmarTROLL SN 647057
DO	% saturation	100	94.9	94.6	94.5	98.3
Conductivity	us/cm	4490	4331	4375	4538	4341
pH	S.U.	4.00	4.28	4.20	4.33	4.35
pH	S.U.	7.00	7.17	7.17	7.10	7.13
pH	S.U.	10.00	9.94	9.82	9.79	9.85
ORP	mV	228.00	236.1	238.5	242.8	245.9

Turbidity	Units	Standard	LaMotte SN 2283-2612	LaMotte SN 1479-4011	LaMotte SN 1479-4011	LaMotte SN 5573-1515
	NTU	0.0		0.03	0.10	0.30
	NTU	1.0		1.08	0.99	0.40
	NTU	10.0		9.10	9.69	10.37

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

Project Plant Scherer  
Field Staff 0 C. T. O'Neill

## Instrument Calibration

Date: 09:45 07:35 07:15 07:40  
Time: 2-17-20 2-18-20 2-19-20 2-20-20

Parameter	Units	Standard	SmarTROLL SN <u>364456</u>	SmarTROLL SN <u>364456</u>	SmarTROLL SN <u>364456</u>	SmarTROLL SN <u>364456</u>
DO	% saturation	100	104.5	104.5	102.0	100.7
Conductivity	us/cm	4490	4538	4538	4543	4646
pH	S.U.	4.00	4.83	4.84	4.82	4.87
pH	S.U.	7.00	7.51	7.52	7.53	7.52
pH	S.U.	10.00	10.07	10.07	10.07	10.04
ORP	mV	228.00	222.7	218.9	214.0	214.8

→ pushed to minimum at last second

Turbidity	Units	Standard	LaMotte SN <u>7009146</u>	LaMotte SN <u>7009146</u>	LaMotte SN <u>7009146</u>	LaMotte SN <u>7009146</u>
	NTU	0.0	0.00	0.02	0.01	0.06
	NTU	1.0	1.08	0.83	1.01	2.00
	NTU	10.0	9.18	11.04	9.95	9.57

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

# Instrument Calibration Log



Personnel: Nicolas T. Tena - Tuma

Project Name: Pizumetu Sampling Plant

Device Names: Smartell HACH 21002  
lotura

Silona

Project Number: 166235019

Serial Numbers: Smartell: 440279  
HACH 21002: 1405UC032812

Date: <u>02/17/2020</u>	Time: <u>8:40</u>	Location: <u>Office</u> <input type="checkbox"/> <u>Field</u> <input type="checkbox"/> <input checked="" type="checkbox"/> <u>Other: W4</u>				
Standard	Lot Number	Expiration Date	Concentration	Initial	Final	Additional Info
pH 7.0 (S.U.)	<u>1907041</u>	<u>07/2020</u>	7.0	<u>7.26</u>	<u>7.06</u>	<u>12.0 °C</u>
pH 4.0 (S.U.)	<u>19150280</u>	<u>07/2020</u>	4.0	<u>4.67</u>	<u>4.00</u>	<u>12.2 °C</u>
pH 10.0 (S.U.)	<u>18449291</u>	<u>07/2020</u>	10.0	<u>9.77</u>	<u>10.12</u>	<u>11.8 °C</u>
Sp. Conductance (µS/cm)	<u>1907041</u>	<u>07/2020</u>	<del>440</del> <u>440</u> µS/cm	<u>3989</u>	<u>4490</u>	<u>12.2 °C</u>
ORP (mV)	<u>19280039</u>	<u>07/2020</u>	<del>220</del> <u>220</u> mV	<u>231.8</u>	<u>228</u>	<u>11.7 °C</u>
Dissolved Oxygen	—	—	100%	<u>93.7</u>	—	—
10 NTU	<u>A8270</u>	<u>Jan/2020</u>	10	<u>11.0</u>	—	—
20 NTU	<u>A8270</u>	<u>Jan/2020</u>	20	<u>22.4</u>	—	—
100 NTU	<u>A8270</u>	<u>Jan/2020</u>	100	<u>108</u>	—	—
800 NTU	<u>2600901</u>	<u>Jan/2020</u>	800	<u>80</u>	—	—

Date: <u>02/18/2020</u>	Time:	Location: <u>Office</u> <input type="checkbox"/> <u>Field</u> <input type="checkbox"/> <input checked="" type="checkbox"/> <u>Other: W4</u>				
Standard	Lot Number	Expiration Date	Concentration	Initial	Final	Additional Info
pH 7.0 (S.U.)	<del>Sample 95</del> <u>02/17/2020</u>		7.0	<u>7.26</u>	<u>7.06</u>	<u>13.4 °C</u>
pH 4.0 (S.U.)			4.0	<u>4.72</u>	<u>4.00</u>	<u>13.0 °C</u>
pH 10.0 (S.U.)			10.0	<u>10.08</u>	<u>10.00</u>	<u>13.4 °C</u>
Sp. Conductance (µS/cm)			<del>440</del> <u>440</u> µS/cm	<u>4245</u>	<u>4490</u>	<u>13.0 °C</u>
ORP (mV)			<del>220</del> <u>220</u> mV	<u>229.7</u>	<u>228</u>	<u>13.3 °C</u>
Dissolved Oxygen			100%	<u>93.8</u>	—	—
10 NTU			10	—	<u>9.54</u>	} <u>0.89 NTU</u> in note 2020-2612
20 NTU			20	<u>20.3</u>	—	
100 NTU			100	<u>108.15</u>	—	
800 NTU			800	—	—	

Date: <u>02/19/2020</u>	Time:	Location: <u>Office</u> <input type="checkbox"/> <u>Field</u> <input type="checkbox"/> <input checked="" type="checkbox"/> <u>Other: W4</u>				
Standard	Lot Number	Expiration Date	Concentration	Initial	Final	Additional Info
pH 7.0 (S.U.)	<del>Sample 95</del> <u>02/17/2020</u>		7.0	<u>7.25</u>	<u>7.02</u>	<u>15.5 °C</u>
pH 4.0 (S.U.)			4.0	<u>4.65</u>	<u>4.00</u>	<u>15.4 °C</u>
pH 10.0 (S.U.)			10.0	<u>9.72</u>	<u>10.08</u>	<u>15.5 °C</u>
Sp. Conductance (µS/cm)			<del>440</del> <u>440</u> µS/cm	<u>4133</u>	<u>4490</u>	<u>15.4 °C</u>
ORP (mV)			<del>220</del> <u>220</u> mV	<u>225.4</u>	<u>228</u>	<u>15.5 °C</u>
Dissolved Oxygen			100%	<u>94.0</u>	—	—
10 NTU			<del>100</del> <u>100</u>	<u>1.00</u>	—	} <u>10</u> in Note.
20 NTU			<del>1000</del> <u>1000</u>	<u>9.71</u>	—	
100 NTU			100	—	—	
800 NTU			800	—	—	

Project Plant Scherer  
Field Staff

Instrument Calibration

Date: ~~8-50~~ 02/17/2020

Time: 8:58

08:00  
2-18-2008:00  
2-1908:00  
2-20

Parameter	Units	Standard	SmarTROLL SN <u>647057</u>	SmarTROLL SN <u>647057</u>	SmarTROLL SN <u>647057</u>	SmarTROLL SN <u>647057</u>
DO	% saturation	100	93.4	100.1	91.7	92.8
Conductivity	us/cm	4490	3997	4424	4605	4726
pH	S.U.	4.00	4.40	4.52	4.45	4.47
pH	S.U.	7.00	7.25	7.14	7.12	7.14
pH	S.U.	10.00	10.30	9.76	9.79	9.74
ORP	mV	228.00	230.1	243.0	232.9	239.8

Turbidity	Units	Standard	LaMotte SN <u>2283</u>	LaMotte SN <u>5575-195</u>	LaMotte SN <u>5575-195</u>	LaMotte SN <u>5575-195</u>
	NTU	0.0	0.0	0.15	0.0	0.0
	NTU	1.0	0.32	0.52	1.05	1.01
	NTU	10.0	10.37	9.73	9.53	9.98

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

**APPENDIX C**

# FIELD DATA FORMS

MARCH 2020

Product Name: Low-Flow System

Date: 2020-03-18 14:53:38

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 44.6 ft

Pump placement from TOC 44.6 ft

Well Information:

Well ID SGWA-1  
Well diameter 2 in  
Well Total Depth 53.4 ft  
Screen Length 10 ft  
Depth to Water 36.45 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6840687 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 $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:30:10	1200.00	19.41	5.42	35.35	2.25	36.61	3.37	618.25
Last 5	14:35:10	1499.99	19.37	5.40	34.81	1.91	36.61	3.59	618.94
Last 5	14:40:10	1799.98	19.50	5.39	34.12	1.15	36.61	3.21	620.69
Last 5	14:45:10	2099.98	19.49	5.38	33.60	0.93	36.61	2.93	621.48
Last 5	14:50:10	2399.97	19.46	5.37	33.69	1.17	36.62	3.10	623.37
Variance 0			0.13	-0.01	-0.69			-0.38	1.75
Variance 1			-0.01	-0.01	-0.51			-0.28	0.79
Variance 2			-0.02	-0.01	0.09			0.18	1.90

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 14:35:31

Project Information:

Operator Name A. Howard  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 91.05

Pump placement from TOC 91.05

Well Information:

Well ID SGWA-2  
Well diameter 2 in  
Well Total Depth 98.5 ft  
Screen Length 10 ft  
Depth to Water 35.0 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.9023301 L  
Calculated Sample Rate 270 sec  
Stabilization Drawdown 35.16 in  
Total Volume Pumped 9.45 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:13:37	810.00	18.17	6.81	117.64	0.60	37.79	4.20	63.08
Last 5	14:18:07	1079.99	18.17	6.80	117.77	0.43	37.91	4.33	63.34
Last 5	14:22:37	1349.98	18.16	6.73	117.68	0.71	37.90	4.65	66.37
Last 5	14:27:07	1619.97	18.18	6.81	117.68	0.63	37.93	4.70	64.28
Last 5	14:31:37	1889.96	18.26	6.83	117.78	0.63	37.93	4.82	63.23
Variance 0			-0.01	-0.07	-0.09			0.33	3.03
Variance 1			0.02	0.08	-0.00			0.04	-2.09
Variance 2			0.08	0.02	0.10			0.12	-1.05

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2020-03-17 15:41:01

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 44.7 ft

Pump placement from TOC 44.7 ft

Well Information:

Well ID SGWA-3  
Well diameter 2 in  
Well Total Depth 52.8 ft  
Screen Length 10 ft  
Depth to Water 29.57 ft

Pumping Information:

Final Pumping Rate 110 mL/min  
Total System Volume 0.684515 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 41.4 in  
Total Volume Pumped 3.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:17:55	600.01	18.74	5.86	94.31	0.60	32.15	4.43	68.30
Last 5	15:22:55	900.00	18.75	5.81	93.17	0.57	32.44	4.31	67.45
Last 5	15:27:55	1199.99	18.71	5.85	92.28	0.55	32.73	4.24	67.27
Last 5	15:32:55	1499.98	18.97	5.87	92.18	0.55	32.93	4.22	71.00
Last 5	15:37:55	1799.98	19.02	5.87	92.21	0.60	33.02	4.26	69.48
Variance 0			-0.04	0.04	-0.89			-0.06	-0.19
Variance 1			0.26	0.03	-0.10			-0.02	3.73
Variance 2			0.05	-0.00	0.03			0.04	-1.52

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 13:09:35

Project Information:

Operator Name Christopher Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 54.80 ft

Pump placement from TOC 54.80 ft

Well Information:

Well ID SGWA-4  
Well diameter 2 in  
Well Total Depth 63.20 ft  
Screen Length 10 ft  
Depth to Water 51.43 ft

Pumping Information:

Final Pumping Rate 210 mL/min  
Total System Volume 0.7295956 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 19.8 in  
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:48:32	300.03	18.38	6.35	172.46	10.01	54.01	5.34	96.47
Last 5	12:53:32	600.02	18.37	6.39	171.91	9.28	54.40	5.14	94.17
Last 5	12:58:32	900.02	18.32	6.39	172.50	12.56	53.10	5.30	92.97
Last 5	13:03:32	1200.02	18.90	6.41	173.29	9.81	53.08	5.33	90.70
Last 5									
Variance 0			-0.00	0.03	-0.54			-0.20	-2.30
Variance 1			-0.05	0.00	0.59			0.16	-1.20
Variance 2			0.58	0.02	0.78			0.03	-2.26

Notes

Controller malfunction. No sample taken.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 14:55:10

Project Information:

Operator Name Christopher Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 54.80 ft

Pump placement from TOC 54.80 ft

Well Information:

Well ID SGWA-4  
Well diameter 2 in  
Well Total Depth 63.2 ft  
Screen Length 10 ft  
Depth to Water 51.43 ft

Pumping Information:

Final Pumping Rate 190 mL/min  
Total System Volume 0.7295956 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10.8 in  
Total Volume Pumped 7.05 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:41:01	300.05	21.31	6.40	170.11	10.59	52.06	5.72	95.84
Last 5	14:46:01	600.02	20.33	6.37	171.44	6.39	52.29	5.95	94.17
Last 5	14:51:01	900.02	20.00	6.36	171.36	4.73	52.33	5.79	92.69
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.98	-0.04	1.33			0.22	-1.67
Variance 2			-0.33	-0.00	-0.08			-0.16	-1.47

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 14:29:03

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 24.36 ft

Pump placement from TOC 24.36 ft

Well Information:

Well ID SGWA-5  
Well diameter 2 in  
Well Total Depth 33.10 ft  
Screen Length 10 ft  
Depth to Water 13.13 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.593729 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9.84 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:05:02	300.09	17.77	5.72	53.31	0.99	13.95	4.94	69.34
Last 5	14:10:02	600.01	17.77	5.65	53.33	0.91	13.95	4.34	65.06
Last 5	14:15:01	900.00	17.81	5.65	53.20	0.81	13.95	4.22	61.65
Last 5	14:20:01	1199.99	17.81	5.62	53.15	0.78	13.95	4.12	60.99
Last 5	14:25:01	1499.98	17.86	5.62	53.11	0.70	13.95	4.19	59.67
Variance 0			0.04	-0.00	-0.13			-0.12	-3.41
Variance 1			-0.00	-0.03	-0.05			-0.10	-0.66
Variance 2			0.05	-0.00	-0.04			0.07	-1.32

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 13:26:47

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 34.80 ft

Pump placement from TOC 34.80 ft

Well Information:

Well ID SGWA-24  
Well diameter 2 in  
Well Total Depth 42.90 ft  
Screen Length 10 ft  
Depth to Water 13.19 ft

Pumping Information:

Final Pumping Rate 260 mL/min  
Total System Volume 0.6403272 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.44 in  
Total Volume Pumped 14.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:02:17	2099.98	18.57	6.41	144.68	5.87	13.79	2.88	552.82
Last 5	13:07:17	2399.96	18.50	6.39	144.70	4.91	13.80	2.21	563.33
Last 5	13:12:18	2700.96	18.66	6.40	144.30	4.27	13.81	1.81	569.11
Last 5	13:17:18	3000.95	18.57	6.40	144.66	5.08	13.81	1.77	579.26
Last 5	13:22:18	3300.94	18.39	6.40	144.58	1.93	13.81	1.75	588.95
Variance 0			0.16	0.01	-0.40			-0.40	5.79
Variance 1			-0.09	-0.00	0.35			-0.03	10.15
Variance 2			-0.18	0.00	-0.07			-0.02	9.68

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 15:45:51

Project Information:

Operator Name A. Howard  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 39.75 ft

Pump placement from TOC 39.75 ft

Well Information:

Well ID SGWA-25  
Well diameter 2 in  
Well Total Depth 48 ft  
Screen Length 10 ft  
Depth to Water 26.09 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6624211 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10.2 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:23:51	600.00	18.02	6.04	107.80	1.78	26.89	0.30	59.54
Last 5	15:28:51	900.00	18.01	6.04	108.23	1.56	26.94	0.23	57.05
Last 5	15:33:51	1199.99	18.07	6.03	108.38	1.55	26.94	0.18	55.46
Last 5	15:38:51	1499.98	18.05	6.03	108.41	1.65	26.94	0.17	54.10
Last 5	15:43:51	1799.97	18.03	6.02	108.58	1.54	26.94	0.18	53.67
Variance 0			0.06	-0.01	0.15			-0.05	-1.58
Variance 1			-0.03	-0.00	0.03			-0.01	-1.36
Variance 2			-0.02	-0.01	0.17			0.01	-0.43

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-25 11:33:53

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 19.21 ft

Pump placement from TOC 19.21 ft

Well Information:

Well ID SGWC-6  
Well diameter 2 in  
Well Total Depth 27.6 ft  
Screen Length 10 ft  
Depth to Water 14.13 ft

Pumping Information:

Final Pumping Rate 220 mL/min  
Total System Volume 0.5707424 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 50.16 in  
Total Volume Pumped 21.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:09:23	3901.93	18.17	6.32	112.58	1.55	18.52	1.15	215.25
Last 5	11:14:23	4201.92	18.05	6.31	108.62	1.34	18.40	1.06	216.13
Last 5	11:19:23	4501.91	18.01	6.31	114.56	1.33	18.30	0.88	213.28
Last 5	11:24:23	4801.90	17.94	6.30	115.41	1.32	18.30	0.80	209.54
Last 5	11:29:23	5101.89	18.07	6.31	115.54	1.79	18.31	0.79	207.12
Variance 0			-0.05	-0.00	5.93			-0.18	-2.84
Variance 1			-0.06	-0.01	0.85			-0.08	-3.74
Variance 2			0.13	0.01	0.13			-0.00	-2.43

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-26 16:35:00

Project Information:

Operator Name A. Howard  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 646773  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 29.75 ft

Pump placement from TOC 29.75 ft

Well Information:

Well ID SGWC-7  
Well diameter 2 in  
Well Total Depth 37.7 ft  
Screen Length 10 ft  
Depth to Water 13.89 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6177869 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5.04 in  
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	16:12:22	1199.99	19.15	6.49	292.12	1.09	14.31	0.77	54.64
Last 5	16:17:22	1499.98	19.19	6.50	291.79	1.10	14.31	0.83	53.97
Last 5	16:22:22	1799.98	19.08	6.50	290.95	1.06	14.31	0.73	53.32
Last 5	16:27:22	2099.96	19.06	6.52	290.29	1.04	14.31	0.70	53.14
Last 5	16:32:22	2399.96	19.10	6.52	290.15	0.98	14.31	0.71	52.94
Variance 0			-0.11	-0.00	-0.83			-0.10	-0.65
Variance 1			-0.02	0.02	-0.66			-0.03	-0.18
Variance 2			0.04	0.00	-0.15			0.01	-0.20

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2020-03-25 09:19:00

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 34.2 ft

Pump placement from TOC 34.2 ft

Well Information:

Well ID SGWC-8  
Well diameter 2 in  
Well Total Depth 42.6 ft  
Screen Length 10 ft  
Depth to Water 21.48 ft

Pumping Information:

Final Pumping Rate 240 mL/min  
Total System Volume 0.6376491 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.76 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	08:56:37	300.06	18.01	6.41	495.18	2.27	21.66	1.70	143.10
Last 5	09:01:37	600.00	17.98	6.35	489.58	1.51	21.68	1.82	125.49
Last 5	09:06:37	900.03	17.98	6.34	513.92	1.12	21.70	1.41	116.07
Last 5	09:11:37	1200.02	17.96	6.36	517.99	1.14	21.70	1.55	111.60
Last 5	09:16:37	1499.99	17.98	6.35	519.80	0.77	21.71	1.45	109.05
Variance 0			-0.00	-0.01	24.33			-0.41	-9.43
Variance 1			-0.02	0.02	4.08			0.15	-4.46
Variance 2			0.02	-0.01	1.81			-0.10	-2.55

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-25 09:19:07

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9  
Well diameter 2 in  
Well Total Depth 37.8 ft  
Screen Length 10 ft  
Depth to Water 19.32 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6314003 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9.12 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	08:58:04	300.09	18.03	6.11	709.02	3.21	20.08	0.36	67.30
Last 5	09:03:04	600.01	17.99	6.06	711.09	2.23	20.08	0.32	63.04
Last 5	09:08:04	900.00	17.99	6.03	711.84	1.99	20.08	0.31	60.30
Last 5	09:13:04	1199.99	17.99	6.02	711.94	1.84	20.08	0.29	58.49
Last 5	09:18:05	1501.03	18.01	6.01	712.24	1.97	20.08	0.28	57.72
Variance 0			-0.00	-0.02	0.76			-0.01	-2.73
Variance 1			0.00	-0.02	0.10			-0.02	-1.81
Variance 2			0.02	-0.01	0.30			-0.01	-0.77

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-25 11:05:41

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 24.2 ft

Pump placement from TOC 24.2 ft

Well Information:

Well ID SGWC-10  
Well diameter 2 in  
Well Total Depth 32.6 ft  
Screen Length 10 ft  
Depth to Water 16.55 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
Total System Volume 0.5930148 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 18 in  
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	10:42:49	3599.94	18.84	5.24	80.94	1.40	18.05	0.91	43.24
Last 5	10:47:49	3899.92	18.75	5.24	83.44	1.82	18.05	0.85	43.53
Last 5	10:52:49	4199.92	18.98	5.25	86.54	1.75	18.05	0.82	43.58
Last 5	10:57:49	4499.91	18.94	5.26	88.40	1.77	18.05	0.78	43.73
Last 5	11:02:49	4799.90	18.93	5.26	90.76	1.30	18.05	0.78	43.98
Variance 0			0.23	0.01	3.09			-0.03	0.05
Variance 1			-0.04	0.00	1.86			-0.04	0.15
Variance 2			-0.01	0.00	2.36			-0.00	0.25

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-25 11:59:11

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 34.3 ft

Pump placement from TOC 34.3 ft

Well Information:

Well ID SGWC-11  
Well diameter 2 in  
Well Total Depth 42.7 ft  
Screen Length 10 ft  
Depth to Water 17.80 ft

Pumping Information:

Final Pumping Rate 175 mL/min  
Total System Volume 0.6380954 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 23.76 in  
Total Volume Pumped 4.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:36:45	300.01	20.57	5.22	61.75	4.21	18.90	1.63	60.11
Last 5	11:41:45	600.01	20.66	5.17	59.45	3.45	19.40	1.06	57.95
Last 5	11:46:45	900.00	20.71	5.17	59.36	3.34	19.69	0.91	56.46
Last 5	11:51:45	1199.99	20.97	5.16	59.56	2.56	19.78	0.62	56.16
Last 5	11:56:45	1499.99	21.04	5.16	59.72	2.40	19.78	0.48	55.86
Variance 0			0.06	-0.00	-0.09			-0.14	-1.49
Variance 1			0.26	-0.01	0.20			-0.29	-0.30
Variance 2			0.07	0.00	0.15			-0.14	-0.30

Notes

FD-3(AP) collected

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-26 16:05:06

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12  
Well diameter 2 in  
Well Total Depth 50.20 ft  
Screen Length 10 ft  
Depth to Water 14.5 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6718835 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 29.52 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:40:44	600.01	20.88	6.11	291.69	3.21	16.18	0.65	109.57
Last 5	15:45:44	900.00	20.93	6.11	288.21	5.14	16.48	0.73	115.44
Last 5	15:50:44	1199.99	20.94	6.11	287.74	3.37	16.72	0.73	124.91
Last 5	15:55:44	1499.99	20.88	6.10	287.25	1.59	16.89	0.64	133.53
Last 5	16:00:46	1801.98	20.93	6.10	287.74	1.29	16.96	0.45	140.77
Variance 0			0.01	-0.01	-0.47			0.01	9.48
Variance 1			-0.05	-0.00	-0.48			-0.09	8.61
Variance 2			0.04	-0.00	0.49			-0.18	7.24

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-27 09:17:08

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 29 ft

Pump placement from TOC 29 ft

Well Information:

Well ID SGWC-13  
Well diameter 2 in  
Well Total Depth 37.5 ft  
Screen Length 10 ft  
Depth to Water 4.31 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6144392 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 14.64 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	08:56:13	300.06	17.46	5.96	270.68	2.48	5.45	1.31	62.24
Last 5	09:01:13	600.01	17.53	5.89	271.25	2.31	5.53	0.82	60.88
Last 5	09:06:13	900.01	17.59	5.90	271.74	2.51	5.53	0.59	57.90
Last 5	09:11:13	1200.00	17.60	5.89	271.95	1.91	5.53	0.48	57.86
Last 5	09:16:13	1499.99	17.63	5.89	270.81	2.20	5.53	0.44	56.32
Variance 0			0.06	0.01	0.49			-0.23	-2.97
Variance 1			0.01	-0.02	0.20			-0.11	-0.04
Variance 2			0.02	0.00	-1.14			-0.04	-1.54

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-27 10:04:37

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 30.24 ft

Pump placement from TOC 30.24 ft

Well Information:

Well ID SGWC-14  
Well diameter 2 in  
Well Total Depth 38.5 ft  
Screen Length 10 ft  
Depth to Water 10.32 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6199739 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.96 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:44:03	300.06	16.38	5.87	467.75	1.11	10.40	1.95	59.73
Last 5	09:49:03	600.01	16.35	5.82	469.79	2.59	10.40	0.33	59.66
Last 5	09:54:03	900.00	16.41	5.77	470.06	2.35	10.40	0.23	60.83
Last 5	09:59:03	1199.99	16.42	5.76	470.58	2.19	10.40	0.24	62.12
Last 5	10:04:03	1499.99	16.49	5.74	471.57	2.42	10.40	0.28	61.48
Variance 0			0.06	-0.05	0.27			-0.09	1.17
Variance 1			0.01	-0.01	0.53			0.01	1.29
Variance 2			0.07	-0.02	0.99			0.04	-0.64

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-27 08:48:52

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15  
Well diameter 2 in  
Well Total Depth 48.2 ft  
Screen Length 10 ft  
Depth to Water 24.85 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6619747 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown -0.24 in  
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	08:26:02	1199.99	17.23	4.54	492.38	8.73	24.85	1.68	115.51
Last 5	08:31:02	1499.99	17.19	4.50	492.14	6.89	24.84	1.62	117.90
Last 5	08:36:02	1799.98	17.10	4.50	491.99	5.81	24.83	1.83	117.93
Last 5	08:41:02	2099.97	17.05	4.51	492.93	5.12	24.83	1.82	119.35
Last 5	08:46:02	2399.96	17.15	4.51	493.32	4.57	24.83	1.84	121.61
Variance 0			-0.09	0.01	-0.15			0.21	0.03
Variance 1			-0.05	0.00	0.94			-0.01	1.42
Variance 2			0.10	0.00	0.40			0.02	2.26

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2020-03-27 10:13:53

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16  
Well diameter 2 in  
Well Total Depth 43.3 ft  
Screen Length 10 ft  
Depth to Water 20.10 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6395237 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.84 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:49:13	900.00	17.72	5.20	135.80	7.14	20.16	3.56	102.44
Last 5	09:54:13	1199.99	17.74	5.15	135.95	6.65	20.17	3.41	105.92
Last 5	09:59:13	1499.99	17.81	5.19	135.90	5.79	20.17	3.37	107.10
Last 5	10:04:13	1799.98	17.81	5.18	135.60	7.06	20.17	3.32	108.30
Last 5	10:09:13	2099.97	17.89	5.17	135.76	4.89	20.17	3.34	112.23
Variance 0			0.07	0.04	-0.05			-0.04	1.17
Variance 1			0.00	-0.01	-0.30			-0.05	1.20
Variance 2			0.08	-0.01	0.16			0.02	3.93

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-24 12:05:04

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17  
Well diameter 2 in  
Well Total Depth 27.0 ft  
Screen Length 10 ft  
Depth to Water 0.81 ft

Pumping Information:

Final Pumping Rate 260 mL/min  
Total System Volume 0.5708762 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.8 in  
Total Volume Pumped 16.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:41:35	2701.96	18.02	6.20	563.28	5.59	1.46	0.98	145.85
Last 5	11:46:35	3001.95	18.11	6.20	563.31	5.03	1.46	0.78	150.05
Last 5	11:51:35	3301.94	18.17	6.20	564.23	5.94	1.46	0.74	154.35
Last 5	11:56:35	3601.93	18.24	6.21	563.94	5.79	1.46	0.94	161.09
Last 5	12:01:35	3901.93	18.19	6.21	563.47	4.78	1.46	0.75	165.92
Variance 0			0.06	0.00	0.92			-0.04	4.30
Variance 1			0.07	0.00	-0.29			0.21	6.74
Variance 2			-0.05	0.00	-0.47			-0.19	4.82

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-26 16:39:12

Project Information:

Operator Name K. Coolman  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 39.2 ft

Pump placement from TOC 39.2 ft

Well Information:

Well ID SGWC-18  
Well diameter 2 in  
Well Total Depth 47.6 ft  
Screen Length 10 ft  
Depth to Water 34.63 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6599662 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.64 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	16:18:13	300.06	22.90	4.77	2073.18	2.10	34.85	2.19	109.54
Last 5	16:23:12	600.02	22.81	4.75	2082.31	1.70	34.85	1.82	110.82
Last 5	16:28:12	900.01	22.98	4.74	2070.28	1.56	34.85	1.75	112.12
Last 5	16:33:12	1200.00	22.94	4.74	2074.11	1.65	34.85	1.71	112.55
Last 5	16:38:12	1499.99	22.96	4.74	2058.43	1.43	34.85	1.71	113.22
Variance 0			0.17	-0.01	-12.03			-0.07	1.30
Variance 1			-0.04	-0.00	3.83			-0.04	0.43
Variance 2			0.02	0.00	-15.68			0.01	0.66

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-23 17:46:42

Project Information:

Operator Name Christopher Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-19  
Well diameter 2 in  
Well Total Depth 37.4 ft  
Screen Length 10 ft  
Depth to Water 14.42 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6144392 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.2 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	17:25:16	300.06	18.41	5.56	577.80	0.39	15.00	3.59	99.21
Last 5	17:30:16	600.02	18.50	5.53	577.53	0.16	15.01	3.22	98.74
Last 5	17:35:16	900.02	18.58	5.52	577.20	0.12	15.01	3.05	97.93
Last 5	17:40:16	1200.01	18.61	5.51	577.75	0.33	15.02	3.01	97.68
Last 5	17:45:16	1500.01	18.62	5.51	577.25	0.41	15.02	2.99	96.76
Variance 0			0.08	-0.00	-0.33			-0.18	-0.80
Variance 1			0.02	-0.01	0.55			-0.04	-0.25
Variance 2			0.02	0.00	-0.50			-0.02	-0.93

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-23 16:37:57

Project Information:

Operator Name Christopher Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 19.5 ft

Pump placement from TOC 19.5 ft

Well Information:

Well ID SGWC-20  
Well diameter 2 in  
Well Total Depth 27.9 ft  
Screen Length 10 ft  
Depth to Water 11.80 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5720367 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 20.64 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	16:14:06	1500.01	19.70	4.16	559.57	0.46	13.51	1.40	84.31
Last 5	16:19:06	1800.01	19.81	4.18	559.41	0.30	13.52	1.98	87.26
Last 5	16:24:06	2100.01	19.84	4.18	555.15	0.33	13.52	1.26	89.54
Last 5	16:29:06	2400.00	19.84	4.18	554.41	0.38	13.52	1.24	92.24
Last 5	16:34:06	2700.00	19.88	4.19	551.65	0.44	13.52	1.16	94.94
Variance 0			0.04	0.00	-4.25			-0.72	2.28
Variance 1			-0.00	0.00	-0.74			-0.02	2.70
Variance 2			0.04	0.01	-2.76			-0.09	2.70

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-23 16:35:43

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21  
Well diameter 2 in  
Well Total Depth 27.79 ft  
Screen Length 10 ft  
Depth to Water 0.00 ft

Pumping Information:

Final Pumping Rate 350 mL/min  
Total System Volume 0.5715458 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0 in  
Total Volume Pumped 8.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	16:12:48	300.07	19.24	6.30	474.70	1.96	0.00	0.08	29.61
Last 5	16:17:48	600.03	19.28	6.18	478.79	1.12	0.00	0.06	30.21
Last 5	16:22:48	900.00	19.40	6.15	473.61	1.00	0.00	0.05	32.19
Last 5	16:27:48	1200.00	19.41	6.14	477.14	0.68	0.00	0.04	35.21
Last 5	16:32:50	1501.99	19.46	6.12	473.22	0.52	0.00	0.04	38.27
Variance 0			0.12	-0.04	-5.18			-0.01	1.98
Variance 1			0.02	-0.00	3.52			-0.01	3.03
Variance 2			0.04	-0.02	-3.91			-0.01	3.06

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-24 08:52:37

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 44.20 ft

Pump placement from TOC 44.20 ft

Well Information:

Well ID SGWC-22  
Well diameter 2 in  
Well Total Depth 52.60 ft  
Screen Length 10 ft  
Depth to Water 22.92 ft

Pumping Information:

Final Pumping Rate 220 mL/min  
Total System Volume 0.6822833 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 15 in  
Total Volume Pumped 5.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	08:28:32	300.06	18.48	5.88	362.80	3.66	23.86	0.78	111.26
Last 5	08:33:32	600.00	18.61	5.63	367.87	3.57	24.14	0.53	119.12
Last 5	08:38:32	900.00	18.65	5.60	368.16	3.38	24.15	0.31	118.31
Last 5	08:43:32	1199.99	18.70	5.60	366.35	2.74	24.16	0.21	117.72
Last 5	08:48:32	1499.98	18.71	5.62	363.53	3.84	24.17	0.17	118.18
Variance 0			0.04	-0.04	0.29			-0.22	-0.81
Variance 1			0.05	0.00	-1.81			-0.10	-0.59
Variance 2			0.01	0.01	-2.82			-0.04	0.47

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-24 10:07:47

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 44.25 ft

Pump placement from TOC 44.25 ft

Well Information:

Well ID SGWC-23  
Well diameter 2 in  
Well Total Depth 52.60 ft  
Screen Length 10 ft  
Depth to Water 26.93 ft

Pumping Information:

Final Pumping Rate 240 mL/min  
Total System Volume 0.6825064 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.44 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:45:02	300.01	18.61	6.08	315.66	1.18	27.05	1.94	110.24
Last 5	09:50:02	600.01	18.59	6.03	314.45	1.94	27.06	1.74	117.80
Last 5	09:55:02	900.00	18.57	6.01	312.85	0.85	27.05	1.35	121.43
Last 5	10:00:02	1199.99	18.57	6.00	312.41	0.57	27.05	1.27	123.13
Last 5	10:05:02	1499.99	18.57	6.00	312.12	0.63	27.05	1.25	125.71
Variance 0			-0.02	-0.02	-1.60			-0.40	3.63
Variance 1			-0.00	-0.00	-0.44			-0.08	1.70
Variance 2			0.01	-0.00	-0.29			-0.02	2.58

Notes

Grab Samples



115A<sup>4</sup>

Project Plant Scherer  
Field Staff

Instrument Calibration

Date: Time: 3-17-20 3-18-20 3-19-20 3-20-20

Parameter	Units	Standard	SmarTROLL SN 643819	SmarTROLL SN 643819	SmarTROLL SN 643819	SmarTROLL SN 643819
DO	% saturation	100	95.5	95.8	96.1	96.1
Conductivity	us/cm	4490	4593	4441	4537 <sup>2</sup>	4549
pH	S.U.	4.00	4.22	4.22	4.20	4.18
pH	S.U.	7.00	7.06	7.11	7.11	7.12
pH	S.U.	10.00	9.80	9.95	9.76	9.78
ORP	mV	228.00	240.5	240.0	236.0	232.6

3-19-20 3-18-20 3-19-20 3-20-20

Turbidity	Units	Standard	LaMotte SN 390-385	LaMotte SN 390-385	LaMotte SN 390-011	LaMotte SN 390-011
	NTU	0.0	0.00	0.13	0.00	0.00
	NTU	1.0	1.00	1.05	0.98	1.05
	NTU	10.0	10.00	10.11	9.83	10.11

Date: Time: 3-21-20 3-22-20 3-23-20 3-24-20

Parameter	Units	Standard	SmarTROLL SN 643819	SmarTROLL SN 643819	SmarTROLL SN 643819	SmarTROLL SN 643819
DO	% saturation	100	95.5	95.1	95.6	96.2
Conductivity	us/cm	4490	4590	4585	4537	4590
pH	S.U.	4.00	4.20	4.23	4.29	4.30
pH	S.U.	7.00	7.13	7.11	7.13	7.16
pH	S.U.	10.00	9.81	9.78	9.69	9.94
ORP	mV	228.00	239.0	230.6	234.1	232.0

3-21-20 3-22-20 3-23-20 3-24-20

Turbidity	Units	Standard	LaMotte SN 390-011	LaMotte SN 390-148	LaMotte SN 390-011	LaMotte SN 390-148
	NTU	0.0	0.01	0.01	0.00	0.02
	NTU	1.0	1.02	0.83	0.85	1.04
	NTU	10.0	10.09	10.00	10.00	9.83

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

Project Plant Scherer  
Field Staff

*E. COOMAN*

Instrument Calibration

Date: Time: *3-25-20 3-26-20 3-27-20*

Parameter	Units	Standard	SmartROLL SN <i>6432019</i>	SmartROLL SN <i>6432019</i>	SmartROLL SN <i>6432019</i>	SmartROLL SN _____
DO	% saturation	100	<i>96.1</i>	<i>95.0</i>	<i>95.9</i>	
Conductivity	us/cm	4490	<i>4677</i>	<i>4730</i>	<i>4600</i>	
pH	S.U.	4.00	<i>4.29</i>	<i>4.30</i>	<i>4.25</i>	
pH	S.U.	7.00	<i>7.17</i>	<i>7.17</i>	<i>7.17</i>	
pH	S.U.	10.00	<i>9.71</i>	<i>9.60</i>	<i>9.67</i>	
ORP	mV	228.00	<i>228.4</i>	<i>227.4</i>	<i>227.5</i>	

*3-25-20 3-26-20 3-27-20*

Turbidity	Units	Standard	LaMotte SN <i>7009-1116</i>	LaMotte SN <i>7009-1116</i>	LaMotte SN <i>7009-1116</i>	LaMotte SN _____
	NTU	0.0	<i>0.01</i>	<i>0.01</i>	<i>0.00</i>	
	NTU	1.0	<i>0.99</i>	<i>0.98</i>	<i>0.94</i>	
	NTU	10.0	<i>9.97</i>	<i>10.02</i>	<i>9.90</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 Scherer  
 Field Staff

Angelina Goumas

Instrument Calibration

Date: 3/17 Time: 0730 3/17 3/18 3/19 3/20 3/21

646773

Parameter	Units	Standard	SmarTROLL SN 646773	SmarTROLL SN 646773	SmarTROLL SN 646773	SmarTROLL SN 646773
DO	% saturation	100	90.8	91.5	92.8	92.7
Conductivity	us/cm	4490	4706	4286	4296	4081
pH	S.U.	4.00	4.52	4.49	4.48	4.25
pH	S.U.	7.00	7.07	7.29	7.27	7.16
pH	S.U.	10.00	10.03	10.05	10.08	9.96
ORP	mV	228.00	225.7	226.0	222.0	228.0

99.6  
 4481  
 4.47  
 7.25  
 10.05  
 217.2

Turbidity	Units	Standard	LaMotte SN 6411	LaMotte SN 6411	LaMotte SN 6411	LaMotte SN 6411
	NTU	0.0	0	-0.01	0.16	0.08
	NTU	1.0	1.12	1.09	1.03	0.97
	NTU	10.0	9.83	9.98	9.79	9.56

Date: 3/22 Time: 3/22 3/23 3/24 3/25 3/26

646773

Parameter	Units	Standard	SmarTROLL SN 646773	SmarTROLL SN 646773	SmarTROLL SN 646773	SmarTROLL SN 646773
DO	% saturation	100	93.9	90.3	90.6	90.6
Conductivity	us/cm	4490	4497	4491	4429	4043
pH	S.U.	4.00	4.53	4.59	4.2	4.2
pH	S.U.	7.00	7.24	7.21	7.11	7.18
pH	S.U.	10.00	10.00	9.92	10.01	9.92
ORP	mV	228.00	218.1	221.7	219.6	215.1

90.2  
 4049  
 7.01  
 7.19  
 9.92  
 214.4

Turbidity	Units	Standard	LaMotte SN 6411	LaMotte SN 6411	LaMotte SN 6411	LaMotte SN 6411
	NTU	0.0	0.07	1.26	0.10	0.53
	NTU	1.0	1.2	1.19	1.2	1.2
	NTU	10.0	9.87	9.56	9.57	9.76

0.11  
 1.08  
 7.85

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

DUPLICATE = NO DATE  
 TIME

BLANK = TIME + DATE

Project Plant Scherer  
Field Staff

Instrument Calibration

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				

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 Scherer  
 Field Staff A. McCLURE

Instrument Calibration

Date: 3/17/20 Time: 0730      0730      0730      0720  
 3/18/20      3/19/20      3/20/20

Parameter	Units	Standard	SmarTROLL SN 963068	SmarTROLL SN 963068	SmarTROLL SN 963068	SmarTROLL SN 963068
DO	% saturation	100	96.1	92.8	92.4	90.3
Conductivity	us/cm	4490	4344	4106	4094	4347
pH	S.U.	4.00	4.22	4.23	4.22	4.40
pH	S.U.	7.00	7.02	7.04	7.06	7.27
pH	S.U.	10.00	9.82	9.82	9.86	9.61
ORP	mV	228.00	233.7	234.0	230.2	218

Turbidity	Units	Standard	LaMotte SN 2283-2612	LaMotte SN 2283-2612	LaMotte SN 2283-2612	LaMotte SN <del>2283-2612</del> 2283-2612
	NTU	0.0	0.00	-0.01	0.00	0.00
	NTU	1.0	0.98	0.99	1.03	0.95
	NTU	10.0	10.01	10.00	10.00	10.00

Date:      Time:      1055      0725      0730      0730  
 3/23/20      3/24/20      3/25/20      3/26/20

Parameter	Units	Standard	SmarTROLL SN 963068	SmarTROLL SN 963068	SmarTROLL SN 963068	SmarTROLL SN 963068
DO	% saturation	100	92.5	92.6	96.8	96.7
Conductivity	us/cm	4490	4296	4215	4209	4223
pH	S.U.	4.00	4.41	4.42	4.41	4.46
pH	S.U.	7.00	7.13	7.15	7.14	7.16
pH	S.U.	10.00	9.80	9.81	9.82	9.80
ORP	mV	228.00	222.9	220.2	218.6	210.5

Turbidity	Units	Standard	LaMotte SN 2283-2612	LaMotte SN 2283-2612	LaMotte SN 2283-2612	LaMotte SN 2283-2612
	NTU	0.0	0.0	0.0	0.00	-0.01
	NTU	1.0	1.00	1.00	0.91	1.00
	NTU	10.0	9.98	10.00	10.01	9.99

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

Project Plant Scherer  
 Field Staff *A. McClure*

Instrument Calibration

Date: \_\_\_\_\_ Time: *0730 3/27/20* *1100 3/27/20* *0730 3/21/20*

Parameter	Units	Standard	SmarTROLL SN <i>63068</i>	SmarTROLL SN <i>63063</i>	SmarTROLL SN <i>5063</i>	SmarTROLL SN _____
DO	% saturation	100	<i>97</i>	<i>96.6</i>	<i>99.0</i>	
Conductivity	us/cm	4490	<i>4219</i>	<i>4311</i>	<i>4286</i>	
pH	S.U.	4.00	<i>7.97</i>	<i>7.50</i>	<i>7.55</i>	
pH	S.U.	7.00	<i>7.15</i>	<i>7.17</i>	<i>7.15</i>	
pH	S.U.	10.00	<i>9.78</i>	<i>9.76</i>	<i>9.75</i>	
ORP	mV	228.00	<i>207.6</i>	<i>207.5</i>	<i>208.8</i>	

Turbidity	Units	Standard	LaMotte SN <i>2283-2613</i>	LaMotte SN <i>9009-110</i>	LaMotte SN <i>2283-1616</i>	LaMotte SN _____
	NTU	0.0	<i>0.00</i>	<i>0.00</i>	<i>0.01</i>	
	NTU	1.0	<i>0.93</i>	<i>0.99</i>	<i>0.96</i>	
	NTU	10.0	<i>9.97</i>	<i>10.01</i>	<i>9.99</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 Scherer  
 Field Staff J. W. Aguiar

Instrument Calibration

Date: 3/20 Time: 3/31

Parameter	Units	Standard	SmarTROLL SN 646773	SmarTROLL SN 646773	SmarTROLL SN _____	SmarTROLL SN _____
DO	% saturation	100	94.4%	92.5%		
Conductivity	us/cm	4490	466%	466%		
pH	S.U.	4.00	4.61	4.63		
pH	S.U.	7.00	7.16	7.15		
pH	S.U.	10.00	7.87	7.87		
ORP	mV	228.00	210	209.8		

Turbidity	Units	Standard	LaMotte SN 7009-196	LaMotte SN 7009-196	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.01	0.01		
	NTU	1.0	0.77	0.7%		
	NTU	10.0	12.11	9.9%		

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 Scherer  
 Field Staff C. Towell

Instrument Calibration

Date: Time: 3/30/20 3/31/20 4/1/20

Parameter	Units	Standard	SmarTROLL SN 649057	SmarTROLL SN 649057	SmarTROLL SN 649057	SmarTROLL SN _____
DO	% saturation	100	96.1	97.9	95.5	
Conductivity	us/cm	4490	4851	4329	4787	
pH	S.U.	4.00	4.58	4.38	4.62	
pH	S.U.	7.00	7.15	7.12	7.11	
pH	S.U.	10.00	9.77	9.74	9.82	
ORP	mV	228.00	226.8	226.1	235.0	

Turbidity	Units	Standard	LaMotte SN 1511-911	LaMotte SN 1511-911	LaMotte SN 1511-911	LaMotte SN _____
	NTU	0.0	6.22	0.12	0.18	
	NTU	1.0	6.79	0.88	1.00	
	NTU	10.0	10.61	9.25	9.85	

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



**APPENDIX C**

**FIELD DATA FORMS  
SEPTEMBER 2020**

Product Name: Low-Flow System

Date: 2020-09-14 12:00:44

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020 we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 44.60 ft

Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-1  
Well diameter 2 in  
Well Total Depth 53.40 ft  
Screen Length 10 ft  
Depth to Water 38.39 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.6840687 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.92 in  
Total Volume Pumped 6.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:16:45	300.15	20.04	5.18	32.93	3.70	38.80	1.12	103.89
Last 5	11:21:45	600.02	19.99	5.10	32.63	3.39	38.80	0.54	103.21
Last 5	11:26:45	900.02	19.85	5.08	32.70	2.60	38.80	0.54	110.29
Last 5	11:31:46	1201.02	19.90	5.10	32.74	2.40	38.80	0.58	120.85
Last 5	11:36:48	1502.66	19.90	5.11	32.82	3.02	38.80	0.64	133.12
Variance 0			-0.14	-0.02	0.07			-0.00	7.08
Variance 1			0.04	0.01	0.04			0.04	10.57
Variance 2			0.00	0.01	0.08			0.06	12.26

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 12:39:58

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020 we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 91.05 ft

Pump placement from TOC 91.05 ft

Well Information:

Well ID SGWA-2  
Well diameter 2 in  
Well Total Depth 98.5 ft  
Screen Length 10 ft  
Depth to Water 38.54 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.8913947 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 32.04 in  
Total Volume Pumped 6.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:11:27	300.02	19.60	6.58	129.75	4.40	40.73	3.70	192.72
Last 5	12:16:27	600.02	19.36	6.68	129.88	3.34	41.42	3.76	214.19
Last 5	12:21:27	900.02	19.61	6.73	130.39	4.19	41.24	3.89	221.51
Last 5	12:26:27	1200.02	19.71	6.75	130.16	4.25	41.21	4.02	236.84
Last 5	12:31:27	1500.02	19.73	6.73	130.17	3.52	41.21	4.04	267.63
Variance 0			0.25	0.05	0.51			0.13	7.31
Variance 1			0.11	0.02	-0.23			0.12	15.33
Variance 2			0.02	-0.02	0.00			0.03	30.79

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 12:25:11

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 44.7 ft

Pump placement from TOC 44.7 ft

Well Information:

Well ID SGWA-3  
Well diameter 2 in  
Well Total Depth 52.8 ft  
Screen Length 10 ft  
Depth to Water 33.05 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.684515 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 52.8 in  
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:01:23	600.02	21.38	5.88	81.28	1.01	35.55	3.58	84.03
Last 5	12:06:23	900.02	21.59	5.86	81.47	2.46	36.40	3.46	85.46
Last 5	12:11:24	1201.02	21.59	5.85	80.97	0.45	37.16	3.35	86.79
Last 5	12:16:24	1501.02	21.94	5.84	81.62	3.34	37.45	3.38	87.44
Last 5	12:21:26	1803.06	23.27	5.84	80.75	3.26	37.45	3.32	88.22
Variance 0			0.00	-0.01	-0.50			-0.11	1.33
Variance 1			0.35	-0.01	0.65			0.03	0.64
Variance 2			1.33	0.00	-0.87			-0.07	0.78

Notes

160ml for 25min, 100ml for 5min

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 11:03:58

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 54.8 ft

Pump placement from TOC 54.8 ft

Well Information:

Well ID SGWA-4  
Well ID QED Well Wizard  
Well diameter 2 in  
Well Total Depth 63.2 ft  
Screen Length 10 ft  
Depth to Water 47.88 ft

Pumping Information:

Final Pumping Rate 100 mL/min  
Total System Volume 0.7295956 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 26.64 in  
Total Volume Pumped 3.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:40:55	300.03	22.76	6.94	169.08	1.67	49.00	6.76	90.32
Last 5	10:45:55	600.02	21.96	6.57	169.93	2.26	49.58	6.39	84.71
Last 5	10:50:55	900.02	21.74	6.47	169.54	1.76	49.90	6.12	82.69
Last 5	10:55:55	1200.02	21.64	6.41	170.20	3.38	50.10	6.03	83.04
Last 5	11:00:56	1501.02	22.66	6.40	170.00	3.91	50.10	5.89	82.72
Variance 0			-0.22	-0.11	-0.39			-0.27	-2.02
Variance 1			-0.10	-0.06	0.66			-0.09	0.35
Variance 2			1.01	-0.01	-0.20			-0.13	-0.32

Notes

Purged at 160ml/min for 20min (3.2L), then 5min at 100ml/min (0.5L). FB-1 (AP) here.

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 11:28:33

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 33.1 ft

Pump placement from TOC 33.1 ft

Well Information:

Well ID SGWA-5  
Well diameter 2 in  
Well Total Depth 33.1 ft  
Screen Length 10 ft  
Depth to Water 13.90 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6327392 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9.6 in  
Total Volume Pumped 5.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:05:40	300.05	21.23	6.20	53.36	0.45	14.50	3.64	97.92
Last 5	11:10:40	600.02	20.70	5.83	53.75	0.49	14.63	3.86	91.68
Last 5	11:15:40	900.02	20.57	5.82	53.58	0.36	14.67	3.76	89.89
Last 5	11:20:40	1200.02	20.37	5.83	53.34	0.41	14.70	3.63	89.78
Last 5	11:25:40	1500.02	20.60	5.82	53.59	0.36	14.70	3.62	89.53
Variance 0			-0.13	-0.01	-0.17			-0.10	-1.79
Variance 1			-0.19	0.01	-0.25			-0.13	-0.11
Variance 2			0.22	-0.01	0.25			-0.01	-0.25

Notes

Started purging at 1100  
Stopped purging and began sampling at 1125

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 12:47:18

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 34.89 ft

Pump placement from TOC 34.89 ft

Well Information:

Well ID SGWA-24  
Well diameter 2 in  
Well Total Depth 42.90 ft  
Screen Length 10 ft  
Depth to Water 15.05 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6764808 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5.4 in  
Total Volume Pumped 5.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:25:01	300.02	20.78	6.43	137.85	1.51	15.50	2.20	86.26
Last 5	12:30:01	600.02	20.51	6.48	138.68	2.23	15.50	2.02	82.74
Last 5	12:35:01	900.02	20.43	6.50	139.03	4.63	15.50	1.80	80.84
Last 5	12:40:01	1200.02	20.91	6.51	138.99	4.06	15.50	1.74	79.08
Last 5	12:45:01	1500.02	20.91	6.52	139.52	4.29	15.50	1.72	77.87
Variance 0			-0.08	0.03	0.35			-0.22	-1.90
Variance 1			0.47	0.01	-0.03			-0.06	-1.76
Variance 2			-0.00	0.01	0.52			-0.02	-1.22

Notes

Started purging at 1220  
Stopped purging and began sampling at 1245

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 14:16:21

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020 we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 39.75 ft

Pump placement from TOC 39.75 ft

Well Information:

Well ID SGWA-25  
Well diameter 2 in  
Well Total Depth 48 ft  
Screen Length 10 ft  
Depth to Water 26.27 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6624211 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5.76 in  
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:40:02	300.02	19.45	6.08	117.14	10.47	26.75	1.13	95.34
Last 5	13:45:02	600.10	19.14	6.00	117.43	10.13	26.75	0.80	111.07
Last 5	13:50:02	900.05	19.30	5.99	117.88	7.10	26.75	0.63	124.89
Last 5	13:55:03	1200.97	19.34	6.00	118.21	5.20	26.75	0.71	136.36
Last 5	14:00:16	1513.97	19.41	5.98	121.11	4.20	26.75	0.54	150.10
Variance 0			0.16	-0.01	0.45			-0.17	13.82
Variance 1			0.04	0.01	0.33			0.08	11.47
Variance 2			0.07	-0.03	2.90			-0.17	13.74

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2020-09-14 13:44:41

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 19.21 ft

Pump placement from TOC 19.21 ft

Well Information:

Well ID SGWC-6  
Well diameter 2 in  
Well Total Depth 27.6 ft  
Screen Length 10 ft  
Depth to Water 14.08 ft

Pumping Information:

Final Pumping Rate 120 mL/min  
Total System Volume 0.5707424 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 22.44 in  
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:21:27	600.03	24.87	6.28	128.36	2.04	15.40	0.58	104.38
Last 5	13:26:28	901.02	25.56	6.29	128.91	1.44	15.55	0.58	101.76
Last 5	13:31:29	1202.02	24.51	6.29	126.73	2.22	15.90	0.62	102.02
Last 5	13:36:29	1502.02	25.60	6.29	127.68	3.26	15.90	0.64	100.49
Last 5	13:41:31	1804.02	25.85	6.29	127.60	3.11	15.95	0.49	100.27
Variance 0			-1.04	0.01	-2.18			0.04	0.26
Variance 1			1.08	0.00	0.96			0.02	-1.53
Variance 2			0.25	-0.01	-0.08			-0.15	-0.23

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 14:40:47

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 29.75 ft

Pump placement from TOC 29.75 ft

Well Information:

Well ID SGWC-7  
Well diameter 2 in  
Well Total Depth 37.7 ft  
Screen Length 10 ft  
Depth to Water 13.25 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6177869 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.2 in  
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:28:29	300.02	21.69	6.32	317.44	3.10	13.60	0.44	105.99
Last 5	14:33:29	600.02	21.20	6.32	315.22	2.20	13.60	0.16	100.06
Last 5	14:38:29	900.02	21.17	6.31	307.68	2.15	13.60	0.20	94.47
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.49	-0.01	-2.22			-0.28	-5.92
Variance 2			-0.03	-0.01	-7.54			0.04	-5.60

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 14:00:35

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 34.20 ft

Pump placement from TOC 34.20 ft

Well Information:

Well ID SGWC-8  
Well diameter 2 in  
Well Total Depth 42.60 ft  
Screen Length 10 ft  
Depth to Water 21.3 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6376491 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 4.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:43:15	300.88	21.72	6.54	548.71	0.81	21.60	1.66	103.98
Last 5	13:48:15	600.87	21.71	6.53	555.84	0.65	21.60	1.20	100.37
Last 5	13:53:15	900.93	21.64	6.54	555.88	0.53	21.60	1.09	97.72
Last 5	13:58:15	1200.88	21.17	6.56	553.68	0.41	21.60	1.06	95.78
Last 5									
Variance 0			-0.02	-0.01	7.12			-0.47	-3.61
Variance 1			-0.07	0.01	0.04			-0.11	-2.65
Variance 2			-0.46	0.02	-2.20			-0.03	-1.94

Notes

Started purging at 1338  
Stopped purging and began sampling at 1400

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 15:02:16

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9  
Well diameter 2 in  
Well Total Depth 37.80 ft  
Screen Length 10 ft  
Depth to Water 20.60 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6162246 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9.72 in  
Total Volume Pumped 5.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:40:03	300.02	22.34	6.47	641.79	0.51	21.41	1.16	108.63
Last 5	14:45:03	600.02	22.60	6.36	647.38	0.91	21.41	0.76	104.78
Last 5	14:50:03	900.02	22.46	6.34	645.93	0.67	21.41	0.58	102.43
Last 5	14:55:03	1200.02	22.43	6.33	648.94	0.99	21.41	0.50	100.99
Last 5	15:00:03	1500.02	22.34	6.33	650.16	1.05	21.41	0.43	99.40
Variance 0			-0.14	-0.02	-1.45			-0.19	-2.35
Variance 1			-0.03	-0.01	3.01			-0.08	-1.44
Variance 2			-0.10	-0.00	1.23			-0.07	-1.59

Notes

Started purging at 1435  
Stopped purging and began sampling at 1500

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 16:10:56

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 24.2 ft

Pump placement from TOC 24.2 ft

Well Information:

Well ID SGWC-10  
Well diameter 2 in  
Well Total Depth 32.60 ft  
Screen Length 10 ft  
Depth to Water 18.40 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5930148 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 22.68 in  
Total Volume Pumped 4.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	15:52:54	300.04	21.56	5.54	63.63	1.20	20.05	0.90	106.49
Last 5	15:57:54	600.03	21.26	5.49	62.76	1.11	20.29	0.61	110.81
Last 5	16:02:54	900.03	21.11	5.49	62.94	1.36	20.29	0.54	113.32
Last 5	16:07:54	1200.03	21.04	5.51	63.20	2.23	20.29	0.48	114.77
Last 5									
Variance 0			-0.30	-0.05	-0.87			-0.30	4.33
Variance 1			-0.16	0.01	0.17			-0.07	2.51
Variance 2			-0.07	0.02	0.26			-0.06	1.45

Notes

Stopped purging and began sampling at 1547  
Stopped purging and began sampling at 1605

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 15:54:46

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020 we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 34.3 ft

Pump placement from TOC 34.3 ft

Well Information:

Well ID SGWC-11  
Well diameter 2 in  
Well Total Depth 42.7 ft  
Screen Length 10 ft  
Depth to Water 20.02 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6380954 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 47.04 in  
Total Volume Pumped 9.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:15:33	600.02	20.39	5.28	62.54	6.45	23.15	1.45	103.86
Last 5	15:20:33	900.02	20.17	5.29	62.52	5.06	23.50	1.13	104.49
Last 5	15:25:33	1200.02	20.03	5.22	63.13	4.23	23.70	0.67	104.53
Last 5	15:30:36	1503.02	20.03	5.17	62.95	4.53	23.80	0.60	106.77
Last 5	15:35:45	1812.02	20.02	5.14	63.04	4.12	23.94	0.47	106.60
Variance 0			-0.14	-0.07	0.61			-0.47	0.04
Variance 1			-0.00	-0.05	-0.17			-0.06	2.24
Variance 2			-0.01	-0.03	0.09			-0.14	-0.17

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 16:57:15

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020 we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12  
Well diameter 2 in  
Well Total Depth 50.2 ft  
Screen Length 10 ft  
Depth to Water 15.83 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6718835 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 48.84 in  
Total Volume Pumped 9.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:20:31	600.02	20.86	6.09	302.72	6.48	18.82	0.15	9.42
Last 5	16:25:32	900.98	20.54	6.12	302.83	9.80	19.55	0.07	7.37
Last 5	16:30:32	1200.98	20.71	6.12	302.64	7.90	19.90	0.13	8.06
Last 5	16:35:35	1503.98	20.78	6.12	302.02	5.20	19.90	0.16	9.72
Last 5	16:40:37	1805.98	20.65	6.11	303.69	3.90	19.90	0.19	12.13
Variance 0			0.17	0.01	-0.19			0.06	0.70
Variance 1			0.08	-0.00	-0.62			0.03	1.65
Variance 2			-0.13	-0.01	1.67			0.03	2.41

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-14 16:04:58

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 29 ft

Pump placement from TOC 29 ft

Well Information:

Well ID SGWC-13  
Well diameter 2 in  
Well Total Depth 37.5 ft  
Screen Length 10 ft  
Depth to Water 4.78 ft

Pumping Information:

Final Pumping Rate 320 mL/min  
Total System Volume 0.6144392 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 26.04 in  
Total Volume Pumped 4.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:50:20	300.02	22.44	6.06	283.54	3.43	6.75	0.63	84.38
Last 5	15:55:20	600.02	21.75	6.01	285.84	3.63	6.85	0.31	83.69
Last 5	16:00:20	900.02	21.47	6.00	284.26	4.84	6.95	0.24	83.84
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.69	-0.05	2.30			-0.32	-0.69
Variance 2			-0.28	-0.01	-1.58			-0.06	0.15

Notes

Extra rad

Grab Samples



Product Name: Low-Flow System

Date: 2020-09-15 09:26:48

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 30.24 ft

Pump placement from TOC 30.24 ft

Well Information:

Well ID SGWC-14  
Well diameter 2 in  
Well Total Depth 38.50 ft  
Screen Length 10 ft  
Depth to Water 10.60 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6199739 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.2 in  
Total Volume Pumped 6.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:05:05	600.02	18.58	6.41	461.79	11.10	10.70	0.35	67.88
Last 5	09:10:06	900.43	18.50	6.21	461.63	8.92	10.70	0.16	71.11
Last 5	09:15:06	1200.43	18.37	6.11	460.91	7.67	10.70	0.12	72.95
Last 5	09:20:06	1500.43	18.45	6.04	462.57	5.32	10.70	0.12	73.95
Last 5	09:25:07	1801.43	18.41	6.01	463.06	3.61	10.70	0.11	74.84
Variance 0			-0.13	-0.11	-0.73			-0.04	1.85
Variance 1			0.08	-0.06	1.66			-0.01	0.99
Variance 2			-0.03	-0.04	0.49			-0.00	0.90

Notes

Started purging at 0855  
Stopped purging and began sampling at 0925

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-15 10:43:11

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15  
Well diameter 2 in  
Well Total Depth 48.2 ft  
Screen Length 10 ft  
Depth to Water 27.60 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6619747 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.2 in  
Total Volume Pumped 8.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	10:20:02	1200.59	20.14	4.91	474.64	11.06	27.70	0.68	131.63
Last 5	10:25:02	1500.59	20.20	4.88	475.61	8.12	27.70	0.66	135.58
Last 5	10:30:02	1800.59	20.37	4.85	476.41	6.99	27.70	0.66	139.72
Last 5	10:35:02	2100.59	20.46	4.85	475.55	5.76	27.70	0.67	144.58
Last 5	10:40:02	2400.59	20.47	4.87	475.56	4.30	27.70	0.70	146.89
Variance 0			0.17	-0.03	0.80			-0.00	4.14
Variance 1			0.09	0.00	-0.86			0.01	4.87
Variance 2			0.01	0.02	0.01			0.03	2.31

Notes

Started purging at 1000  
Stopped purging and began sampling at 1040

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-15 11:58:30

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16  
Well diameter 2 in  
Well Total Depth 43.3 ft  
Screen Length 10 ft  
Depth to Water 24.16 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6395237 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.68 in  
Total Volume Pumped 7.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:35:04	900.02	19.44	5.55	135.64	18.40	24.30	2.80	112.35
Last 5	11:40:04	1200.02	19.39	5.55	135.63	12.00	24.30	2.78	110.81
Last 5	11:45:04	1500.02	19.39	5.56	135.09	7.87	24.30	2.74	109.66
Last 5	11:50:04	1800.02	19.31	5.56	135.13	5.38	24.30	2.74	108.87
Last 5	11:55:04	2100.68	19.27	5.56	135.10	4.36	24.30	2.74	108.33
Variance 0			-0.00	0.01	-0.54			-0.03	-1.14
Variance 1			-0.08	0.00	0.05			-0.01	-0.79
Variance 2			-0.04	0.00	-0.03			-0.00	-0.54

Notes

Started purging at 1120  
Stopped purging and began sampling at 1155

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-15 13:42:26

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17  
Well diameter 2 in  
Well Total Depth 24.60 ft  
Screen Length 10 ft  
Depth to Water 0.10 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5708762 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10.8 in  
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:20:02	2400.02	21.13	6.41	546.02	5.14	1.00	0.20	61.20
Last 5	13:25:02	2700.02	21.09	6.41	545.86	5.06	1.00	0.17	61.46
Last 5	13:30:02	3000.08	21.04	6.42	546.21	5.29	1.00	0.18	61.64
Last 5	13:35:02	3300.08	20.91	6.42	547.89	5.47	1.00	0.21	63.17
Last 5	13:40:02	3600.08	21.09	6.42	547.31	4.53	1.00	0.14	62.38
Variance 0			-0.05	0.00	0.35			0.01	0.18
Variance 1			-0.12	-0.00	1.67			0.03	1.52
Variance 2			0.18	0.00	-0.58			-0.06	-0.79

Notes

Started purging at 1240  
Stopped purging and began sampling at 1340

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-15 15:05:01

Project Information:

Operator Name D.Thomas  
Company Name Golder Associates  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 647057  
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 39.5 ft

Pump placement from TOC 39.5 ft

Well Information:

Well ID SGWC-18  
Well diameter 2 in  
Well Total Depth 47.60 ft  
Screen Length 10 ft  
Depth to Water 38.05 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.6613052 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.2 in  
Total Volume Pumped 7.00 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:41:30	1200.02	21.40	4.95	2038.78	6.09	38.40	2.39	135.38
Last 5	14:46:30	1500.02	21.40	4.94	2035.71	3.11	38.40	2.65	135.79
Last 5	14:51:30	1800.02	21.35	4.94	2039.01	2.33	38.40	2.87	136.31
Last 5	14:56:30	2100.02	21.36	4.94	2039.31	2.09	38.40	2.72	136.38
Last 5	15:01:30	2400.02	21.39	4.94	2037.81	1.56	38.40	2.91	136.24
Variance 0			-0.04	0.00	3.30			0.22	0.52
Variance 1			0.01	0.00	0.30			-0.16	0.07
Variance 2			0.04	-0.00	-1.50			0.20	-0.14

Notes

Started purging at 1421  
Stopped purging and began sampling at 1505

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-15 13:56:14

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 29 ft

Pump placement from TOC 29 ft

Well Information:

Well ID SGWC-19  
Well diameter 2 in  
Well Total Depth 37.4 ft  
Screen Length 10 ft  
Depth to Water 16.28 ft

Pumping Information:

Final Pumping Rate 400 mL/min  
Total System Volume 0.6144392 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 18.24 in  
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:34:54	300.03	19.95	6.20	620.48	4.20	17.55	2.35	104.58
Last 5	13:39:54	600.02	19.77	5.76	621.91	2.62	17.70	2.31	104.30
Last 5	13:44:54	900.02	19.68	5.60	622.43	1.60	17.80	2.39	105.48
Last 5	13:49:58	1204.02	19.68	5.54	621.95	1.25	17.80	2.41	107.02
Last 5	13:54:58	1504.02	19.63	5.51	621.74	1.45	17.80	2.42	107.92
Variance 0			-0.09	-0.16	0.53			0.08	1.18
Variance 1			0.00	-0.07	-0.48			0.03	1.54
Variance 2			-0.05	-0.02	-0.21			0.01	0.90

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-15 15:06:38

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 19.5 ft

Pump placement from TOC 19.5 ft

Well Information:

Well ID SGWC-20  
Well diameter 2 in  
Well Total Depth 27.9 ft  
Screen Length 10 ft  
Depth to Water 14.4 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.5720367 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 22.56 in  
Total Volume Pumped 15.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:43:46	1506.02	23.07	4.27	551.33	0.32	17.20	0.56	148.07
Last 5	14:48:46	1806.02	23.07	4.29	548.86	0.33	16.90	0.49	148.98
Last 5	14:53:49	2109.02	23.07	4.28	555.57	0.31	16.30	0.35	150.20
Last 5	14:58:50	2410.02	23.07	4.28	555.34	0.34	16.02	0.30	152.90
Last 5	15:03:50	2710.02	23.07	4.30	547.71	0.33	16.28	0.30	155.54
Variance 0			-0.00	-0.01	6.72			-0.14	1.22
Variance 1			-0.00	-0.00	-0.24			-0.05	2.70
Variance 2			0.01	0.01	-7.62			-0.00	2.63

Notes

Variable pump rate. Refer to purge form for volume calculation

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-15 15:42:58

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 643819  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21  
Well diameter 2 in  
Well Total Depth 27.79 ft  
Screen Length 10 ft  
Depth to Water 1.2 ft

Pumping Information:

Final Pumping Rate 400 mL/min  
Total System Volume 0.5715458 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:30:44	300.02	21.50	6.06	537.87	6.46	1.40	0.13	113.01
Last 5	15:35:44	600.02	21.29	6.09	542.87	5.77	1.45	0.06	115.41
Last 5	15:40:44	900.02	21.25	6.10	541.38	4.66	1.45	0.06	116.03
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.21	0.03	5.00			-0.07	2.40
Variance 2			-0.04	0.01	-1.49			0.00	0.63

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2020-09-15 15:33:51

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020 we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 44.20 ft

Pump placement from TOC 44.20 ft

Well Information:

Well ID SGWC-22  
Well diameter 2 in  
Well Total Depth 52.6 ft  
Screen Length 10 ft  
Depth to Water 26.53 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6822833 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 24.84 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:05:04	300.02	19.75	5.69	385.41	7.60	28.10	1.15	78.19
Last 5	15:10:04	600.02	19.49	5.61	391.16	4.68	28.46	0.55	98.63
Last 5	15:15:04	900.02	19.52	5.62	388.37	3.97	28.56	0.52	105.48
Last 5	15:20:05	1201.02	19.50	5.65	384.22	3.12	28.60	0.52	107.33
Last 5									
Variance 0			-0.26	-0.08	5.76			-0.59	20.44
Variance 1			0.02	0.01	-2.79			-0.03	6.85
Variance 2			-0.02	0.03	-4.15			-0.00	1.86

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2020-09-15 14:46:59

Project Information:

Operator Name Jude Waguespack  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 513028  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 44.25 ft

Pump placement from TOC 44.25 ft

Well Information:

Well ID SGWC-23  
Well diameter 2 in  
Well Total Depth 52.60 ft  
Screen Length 10 ft  
Depth to Water 29.58 ft

Pumping Information:

Final Pumping Rate 300 mL/min  
Total System Volume 0.6825064 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.64 in  
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:10:29	900.02	19.23	5.99	330.36	0.53	29.80	2.42	95.73
Last 5	14:15:33	1204.02	19.14	5.96	321.44	0.70	29.80	3.12	102.05
Last 5	14:20:33	1504.02	19.23	5.93	313.74	0.45	29.80	3.42	108.60
Last 5	14:25:33	1804.02	19.17	5.91	311.29	0.42	29.80	3.52	113.07
Last 5	14:30:33	2104.02	19.11	5.89	309.82	0.36	29.80	3.50	117.01
Variance 0			0.09	-0.03	-7.70			0.30	6.54
Variance 1			-0.06	-0.02	-2.45			0.10	4.47
Variance 2			-0.06	-0.02	-1.47			-0.02	3.94

Notes

Grab Samples

Sept 2020

November 2019

## Daily Calibration Log

09137523

Project: Pitt-Richmond

Field Staff: K. Uinkava &amp; Thomas J. Waggoner (A. McElroy)

## Ingyment Calibration

Parameter	Units	Standard	Date: 9/21/20			
			SmartROLL SN 64587 IPad # 90	SmartROLL SN 64587 IPad # 90	SmartROLL SN 64587 IPad # 90	SmartROLL SN 64587 IPad # 90
DO	mg/L	100	92.2	92.8	92.2	91.5
Conductivity	µmhos/cm	4400	4100	4151	4173	4112
pH	5.0	4.00	4.12	4.13	4.13	4.12
pH	5.0	7.00	7.04	7.03	7.03	7.04
pH	5.0	10.00	9.94	9.93	9.94	9.93
ORP	mV	2800	2737	2724	2712	2712

Parameter	Units	Standard	Date: 9/21/20			
			Lakmo SH 1007-9811	Lakmo SH 1007-9811	Lakmo SH 1007-9811	Lakmo SH 1007-9811
Turbidity	NTU	0	0.01	0.01	0.01	0.01
	NTU	10	9.99	9.98	9.99	9.96
	NTU	100	9.93	9.93	9.70	9.71

Parameter	Units	Standard	Date: 9/21/20			
			SmartROLL SN 64587 IPad # 90	SmartROLL SN 64587 IPad # 90	SmartROLL SN 64587 IPad # 90	SmartROLL SN 64587 IPad # 90
DO	mg/L	100	92.2			
Conductivity	µmhos/cm	4400	4173			
pH	5.0	4.00	4.13			
pH	5.0	7.00	7.03			
pH	5.0	10.00	9.93			
ORP	mV	2800	2724			

Parameter	Units	Standard	Date: 9/21/20			
			Lakmo SH 1007-9811	Lakmo SH 1007-9811	Lakmo SH 1007-9811	Lakmo SH 1007-9811
Turbidity	NTU	0	0.01			
	NTU	10	9.93			
	NTU	100	9.93			

Note: DO = Dissolved Oxygen (cm) measurement method; pH = oxidation-reduction potential; mV = millivolts; NTU = Nephelometric Turbidity Units; NA = Not analyzed

Daily Calibration Log

Project Plant Scherer  
Field Staff K. Minkara / D. Thomas / J. Waguespack / A. McClure

Instrument Calibration

Date: 09/09/20 09/10/20 09/11/20 09/14/20  
Time: 07:50 08:00 07:53 09:19

Parameter	Units	Standard	SmarTROLL SN 513028 iPad # 93	SmarTROLL SN 513028 iPad # 93	SmarTROLL SN 513028 iPad # 93	SmarTROLL SN 513028 iPad # 93
DO	% saturation	100	102.4	104.4	102.2	102.9
Conductivity	us/cm	4490	4482	4479	4387	4229
pH	S.U.	4.00	4.23	4.17	4.18	4.23
pH	S.U.	7.00	7.06	7.05	7.04	7.06
pH	S.U.	10.00	9.93	9.91	9.92	9.92
ORP	mV	228.00	221.8	221.8	221.2	219.8

Turbidity	Units	Standard	LaMotte SN 2984-0913	LaMotte SN 2984-0913	LaMotte SN 2984-0913	LaMotte SN 2984-0913
	NTU	0.0	0.01	0.01	0.0	0.01
	NTU	1.0	0.99	0.95	1.42	1.24
	NTU	10.0	9.26	9.90	7.12	9.14

Date: 09/15/20  
Time: 07:58

Parameter	Units	Standard	SmarTROLL SN 513028 iPad # 93	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____	SmarTROLL SN _____ iPad # _____
DO	% saturation	100	97.7			
Conductivity	us/cm	4490	4365			
pH	S.U.	4.00	4.21			
pH	S.U.	7.00	7.04			
pH	S.U.	10.00	9.91			
ORP	mV	228.00	218.9			

Turbidity	Units	Standard	LaMotte SN 2984-0913	LaMotte SN _____	LaMotte SN _____	LaMotte SN _____
	NTU	0.0	0.0			
	NTU	1.0	1.26			
	NTU	10.0	8.30			

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

Project: Plant Science  
 Field Station: K. University of Tennessee, Kingsport, A. McClure

Instrument Calibration

Date: 9/10/2019  
 Time: 12:12

Parameter	Units	Standard	SmartTROLL SN: _____ #Pad #: _____	SmartTROLL SN: _____ #Pad #: _____	SmartTROLL SN: _____ #Pad #: _____	SmartTROLL SN: _____ #Pad #: _____
pH	% acetic acid	100	9.2			
Conductivity	µS/cm	4000	4100			
pH	µS	400	400			
pH	µS	1000	1000			
ORP	mV	20000	20000			

	Units	Standard	LaMotte SN #Pad #	LaMotte SN	LaMotte SN	LaMotte SN
Turbidity	NFU	0	0.0			
	NFU	10	10.0			
	NFU	100	100			

Date: 9/10/2019  
 Time: 12:12

Parameter	Units	Standard	SmartTROLL SN: _____ #Pad #: _____	SmartTROLL SN: _____ #Pad #: _____	SmartTROLL SN: _____ #Pad #: _____	SmartTROLL SN: _____ #Pad #: _____
pH	% acetic acid	100	9.2			
Conductivity	µS/cm	4000	4100			
pH	µS	400	400			
pH	µS	1000	1000			
ORP	mV	20000	20000			

	Units	Standard	LaMotte SN #Pad #	LaMotte SN	LaMotte SN	LaMotte SN
Turbidity	NFU	0	0.0			
	NFU	10	10.0			
	NFU	100	100.0			

Notes: (ND) - Dissolved Oxygen is not recommended near ORP. (ORP) - Reduction potential.  
 -50 mV - 500 mV - Relationship Turbidity (NTU) - Turbidity Meter

Project: Plant Science  
 Location: 6. Yuma, ID. Tiberius J. Waggenpack & Walter

## Instrument Calibration

Date: 11/14/19  
 Time: 0900

Parameter	Units	Standard	SmartROLL SN: 11102 (Pad #) 1	SmartROLL SN: 11103 (Pad #) 2	SmartROLL SN: 11104 (Pad #) 3	SmartROLL SN: 11105 (Pad #) 4
Conductivity	µS/cm	500	500	500	500	500
	µS/cm	4000	4000	4000	4000	4000
	µS/cm	40000	40000	40000	40000	40000
	µS/cm	100000	100000	100000	100000	100000
	µS/cm	200000	200000	200000	200000	200000
Turbidity	NTU	0.1	0.1	0.1	0.1	0.1
	NTU	1.0	1.0	1.0	1.0	1.0
	NTU	10.0	10.0	10.0	10.0	10.0

Date: 11/14/19  
 Time: 0910

Parameter	Units	Standard	SmartROLL SN: 11102 (Pad #) 1	SmartROLL SN: 11103 (Pad #) 2	SmartROLL SN: 11104 (Pad #) 3	SmartROLL SN: 11105 (Pad #) 4
Conductivity	µS/cm	500	500	500	500	500
	µS/cm	4000	4000	4000	4000	4000
	µS/cm	40000	40000	40000	40000	40000
	µS/cm	100000	100000	100000	100000	100000
	µS/cm	200000	200000	200000	200000	200000
Turbidity	NTU	0.1	0.1	0.1	0.1	0.1
	NTU	1.0	1.0	1.0	1.0	1.0
	NTU	10.0	10.0	10.0	10.0	10.0

Note: 11/14/19 covered original calibration of conductivity instrument. 11/14/19 calibration was performed using a HANNA NTU instrument & Turbidity standards. Not included.

**APPENDIX C**

**WELL CONDITION FORM  
MARCH 2020**

**WELL INSPECTION FORM  
PLANT SCHERER**

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 properly 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)
GWA-15	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-16	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-17	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-1	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-2	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-3	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-4	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-5	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-6	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-7	↓	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-8A	↓	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-9	↓	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) N (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-10	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-11	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-12	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-13	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-14	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-18	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-19	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) N (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-20	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) N (e) Y (d) Y	(a) Y (b) Y (c) Y



# WELL INSPECTION FORM PLANT SCHERER

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 properly 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)
SGWA-1	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWA-2	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) N (b) Y (c) Y
SGWA-3	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWA-4	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWA-5	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWA-24	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWA-25	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-6	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-7	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-8	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-9	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-10	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-11	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-12	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-13	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-14	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-15	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-16	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-17	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-18	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-19	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-20	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) N (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-21	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-22	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
SGWC-23	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-45	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-46	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-47	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) N (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-48	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y

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GWA-49	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-22	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-21	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-50	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-29	↓	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-51	↓	(a) Y (b) Y (c) N (d) N	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-52	↓	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-53	↓	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-39	↑	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-40	↑	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) N (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-41	↑	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-42	↑	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-43	↑	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-44	↑	(a) Y (b) N (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWA-54	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-30	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-31	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-32	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-33	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-34	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-35	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-36	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-37	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
GWC-38	↑	(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-21		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-3		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-55		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) N	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-65		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-91		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y

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PZ-10S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-11S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-12S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-13S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-14S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-14I		(a) N (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) N (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-15S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-17I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-19I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-19S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-20I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-21S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-25S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-25I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-26S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-27S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-27D		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-28S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) N (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-29S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-30S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-31I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) N (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
PZ-32S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-32D		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-33S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-34S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-35S		(a) Y (b) N (c) N (d) Y	(a) NA (b) NA (c) NA (d) Y (e) Y	(a) Y (b) Y (c) NA (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-36S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-36I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-37S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y

# WELL INSPECTION FORM PLANT SCHERER

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)
PZ-38I		(a) Y (b) N (c) N (d) Y	(a) NA (b) NA (c) NA (d) Y (e) Y	(a) Y (b) Y (c) NA (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-39S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-40I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-41S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-42I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-43S		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) N (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y
PZ-44I		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
LPZ-1		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
LPZ-2		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
LPZ-3		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
LPZ-4		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
LPZ-5		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
B-102A		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
B-102B		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
B-103A		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
B-103B		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
B-104A		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y
B-104B		(a) Y (b) Y (c) N (d) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y	(a) Y (b) Y (c) Y (d) Y (e) Y (d) Y	(a) Y (b) Y (c) Y

**NOTES:**

1. Provide pictures of any deficiencies.
2. Notify SCS /GPC of any noted deficiencies.
3. Provide additional comments as necessary to address any deficiencies.

**APPENDIX C**

**WELL CONDITION FORM  
SEPTEMBER 2020**

# WELL INSPECTION FORM

## PLANT SCHERER

WELL-ID	MONITORING WELL POSITION  ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified wth correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundater plan for the facility c. Does not require redevelopment  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>
B-102A	--	S	S	S	S	N/A
B-102B	--	S	S	S	S	N/A
B-103A	--	S	S	S	S	N/A
B-103B	--	S	S	S	S	N/A
B-104A	--	S	S	S	S	N/A
B-104B	--	S	S	S	S	N/A
GWA-15	↑	S	S	S	S	S
GWA-16	↑	S	S	S	S	S
GWA-17	↑	S	S	S	S	S
GWA-22	↑	S	S	S	S	S
GWA-21	↑	S	S	S	S	S
GWA-39	↑	Labeled as "GWC-39"; overgrown	S	S	S	S
GWA-40	↑	Labeled as "GWC-40"	S	S	S	S
GWA-41	↑	Labeled as "GWC-41"	S	S	S	S
GWA-42	↑	Labeled as "GWC-42"; overgrown	S	S	S	S
GWA-43	↑	S	S	S	S	S
GWA-44A	↑	S	S	S	S	S
GWA-45	↑	S	S	S	S	S
GWA-46	↑	S	S	S	S	S
GWA-47	↑	S	S	S	S	S
GWA-48	↑	S	S	S	S	S
GWA-49	↑	S	S	S	S	S
GWA-54	↑	Overgrown	S	S	S	S

# WELL INSPECTION FORM PLANT SCHERER

WELL-ID	MONITORING WELL 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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>
GWC-1	↓	Overgrown	S	S	S	S
GWC-2	↓	Overgrown	S	S	S	S
GWC-3	↓	Construction in area	S	Access road collapsed on pad	S	S
GWC-4	↓	Construction in area	S	S	S	S
GWC-5	↓	S	S	S	S	S
GWC-6	↓	S	S	S	S	S
GWC-7	↓	Missing label	S	S	S	S
GWC-8A	↓	S	S	S	S	S
GWC-9	↓	S	S	S	S	S
GWC-10	↓	S	S	S	S	S
GWC-11	↓	S	S	S	S	S
GWC-12	↓	S	S	S	S	S
GWC-13	↓	S	S	S	S	S
GWC-14	↓	S	S	S	S	S
GWC-18	↓	S	S	S	S	S
GWC-19	↓	S	S	S	S	S
GWC-20	↓	S	S	S	S	S
GWC-29	↓	S	S	S	S	S
GWC-30	↑	S	S	S	S	S
GWC-31	↑	S	S	S	S	S
GWC-32	↑	Inaccessible by vehicle	S	S	S	S
GWC-33A	↑	Labeled as "GWC-33"	S	S	S	S
GWC-34	↑	Overgrown	S	S	S	S

# WELL INSPECTION FORM

## PLANT SCHERER

WELL-ID	MONITORING WELL POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified wth correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>
	↑ or ↓					
GWC-35	↑	S	S	S	S	S
GWC-36	↑	S	S	S	S	S
GWC-37	↑	Very muddy in dry conditions	S	S	S	S
GWC-38	↑	S	S	S	S	S
GWC-50	↓	S	S	S	S	S
GWC-51	↓	S	S	S	S	S
GWC-52	↓	S	S	S	S	S
GWC-53	↓	S	S	S	S	S
PZ-2I	--	S	S	S	S	N/A
PZ-3	--	S	S	S	S	N/A
PZ-5S	--	S	S	S	S	N/A
PZ-6S	--	S	S	S	S	N/A
PZ-9I	--	S	S	S	S	N/A
PZ-10S	--	Overgrown	S	S	S	N/A
PZ-11S	--	S	S	S	S	N/A
PZ-12S	--	S	S	S	S	N/A
PZ-13S	--	S	S	S	S	N/A
PZ-14S	--	S	S	S	S	N/A
PZ-14I	--	S	S	S	S	N/A
PZ-15S	--	S	S	S	S	N/A
PZ-17I	--	S	S	S	S	N/A
PZ-19I	--	S	S	S	S	N/A
PZ-19S	--	S	S	S	S	N/A



**WELL INSPECTION FORM**  
**PLANT SCHERER**

WELL-ID	MONITORING WELL POSITION  ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified wth correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition  (S) for Satisfactory Discrepancies identified below	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment  (S) for Satisfactory Discrepancies identified below
PZ-20I	--	S	S	S	S	N/A
PZ-21S	--	S	S	S	S	N/A
PZ-25S	--	S	S	S	S	N/A
PZ-25I	--	S	S	S	S	N/A
PZ-26S	--	S	S	S	S	N/A
PZ-27S	--	S	S	S	S	N/A
PZ-27D	--	S	S	S	S	N/A
PZ-28S	--	S	S	S	S	N/A
PZ-29S	--	S	S	S	S	N/A
PZ-30S	--	Overgrown	S	S	S	N/A
PZ-31I	--	S	S	S	S	N/A
PZ-32S	--	Overgrown	S	S	S	N/A
PZ-32D	--	Overgrown	S	S	S	N/A
PZ-33S	--	S	S	S	S	N/A
PZ-34S	--	S	S	S	S	N/A
PZ-35S	--	S	S	S	S	N/A
PZ-36S	--	Overgrown	S	S	S	N/A
PZ-36I	--	Overgrown	S	S	S	N/A
PZ-37S	--	S	S	S	S	N/A
PZ-38I	--	S	S	S	S	N/A
PZ-39S	--	S	S	Missing 1 washer	S	N/A
PZ-40I	--	S	S	S	S	N/A
PZ-41S	--	S	S	S	S	N/A

# WELL INSPECTION FORM PLANT SCHERER

WELL-ID	MONITORING WELL POSITION  ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified wth correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>
PZ-42I	--	S	S	S	S	N/A
PZ-43S	--	S	S	S	S	N/A
PZ-44I	--	S	S	S	S	N/A
PZ-45D	--	S	S	S	S	N/A
PZ-46D	--	Gate lock requires lubrication	S	S	S	N/A
PZ-47D	--	S	S	S	S	N/A
PZ-48	--	S	S	S	S	N/A
PZ-49S	--	S	S	S	S	N/A
PZ-49D	--	S	S	S	S	N/A
PZ-50D	--	S	S	S	S	N/A
PZ-51D	--	S	S	S	S	N/A
PZ-52	--	S	S	S	S	N/A
PZ-53	--	Overgrown	S	S	S	N/A
PZ-54	--	S	S	S	S	N/A
PZ-55	--	S	S	S	S	N/A
PZ-56	--	S	S	S	S	N/A
PZ-57	--	S	S	S	S	N/A
PZ-58	--	S	S	S	S	N/A
PZ-59S	--	Overgrown	S	S	Missing PVC weephole	N/A
PZ-59D	--	Overgrown	S	S	Missing PVC weephole	N/A
PZ-60S	--	Overgrown	S	S	Missing PVC weephole	N/A
PZ-60D	--	Overgrown	S	S	Missing PVC weephole	N/A
PZ-61	--	S	S	S	Missing PVC weephole	N/A

# WELL INSPECTION FORM PLANT SCHERER

WELL-ID	MONITORING WELL POSITION	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified wth correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	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  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundater plan for the facility c. Does not require redevelopment  <b>(S) for Satisfactory</b> <b>Discrepancies identified below</b>
	↑ or ↓					
PZ-62	--	S	S	S	S	N/A
PZ-63	--	S	S	S	S	N/A
PZ-64	--	S	S	S	S	N/A
PZ-65	--	S	S	S	Missing PVC weephole	N/A
PZ-66S	--	S	S	S	S	N/A
PZ-66D	--	Missing label	S	S	Missing PVC weephole	N/A
PZ-67S	--	S	S	S	S	N/A
PZ-67D	--	S	S	S	Missing PVC weephole	N/A
PZ-68	--	S	S	S	S	N/A
LPZ-1	--	S	S	S	S	N/A
LPZ-2	--	S	S	S	S	N/A
LPZ-3	--	S	S	S	S	N/A
LPZ-4	--	S	S	S	S	N/A
LPZ-5	--	S	S	S	S	N/A
SG-1	--	Removed from post	N/A	N/A	N/A	N/A
SG-2	--	Used ruler to measure down, gauge dry	N/A	N/A	N/A	N/A
SG-3	--	S	N/A	N/A	N/A	N/A
SGWA-1	↑	S	S	S	S	S
SGWA-2	↑	S	S	S	S	S
SGWA-3	↑	S	S	S	S	S
SGWA-4	↑	S	S	S	S	S
SGWA-5	↑	S	S	S	S	S
SGWA-24	↑	S	S	S	S	S

# WELL INSPECTION FORM PLANT SCHERER

WELL-ID	MONITORING WELL POSITION  ↑ or ↓	LOCATION / IDENTIFICATION	PROTECTIVE CASING	SURFACE PAD	INTERNAL CASING	SAMPLING (Groundwater Wells Only)
		a. Visible and accessible b. Properly identified wth correct ID c. Not in a high traffic area that requires traffic protection d. No standing water nearby, adequate surrounding drainage  (S) for Satisfactory Discrepancies identified below	a. Free from damage, degradation, or deterioration b. Functioning weep hole c. Annular space free of debris and water, and has enough pea gravel d. Functioning lock and in good condition  (S) for Satisfactory Discrepancies identified below	a. In good condition b. Sloped away from the well c. In contact with protective casing d. Stable and in contact with ground surface e. Free of debris f. Survey pin clearly identified  (S) for Satisfactory Discrepancies identified below	a. Cap prevents entry of foreign material b. Free of kinks or bends or any obstruction from foreign objects c. Weephole present and cap not too tight to allow equilibrium for air pressure d. Survey point clearly marked on the inner casing e. Sounded depth consistent with well log f. Stable/immobile  (S) for Satisfactory Discrepancies identified below	a. Well recharges adequately when purged b. If dedicated sampling equipment installed, it is in good condition and specified in the approved groundwater plan for the facility c. Does not require redevelopment  (S) for Satisfactory Discrepancies identified below
SGWA-25	↑	S	S	S	S	S
SGWC-6	↓	S	S	S	S	S
SGWC-7	↓	S	Lid disconnected from casing	S	S	S
SGWC-8	↓	S	S	S	S	S
SGWC-9	↓	S	S	S	S	S
SGWC-10	↓	S	S	S	S	S
SGWC-11	↓	S	S	S	S	S
SGWC-12	↓	S	S	S	S	S
SGWC-13	↓	S	S	S	S	S
SGWC-14	↓	S	S	S	S	S
SGWC-15	↓	S	S	S	S	S
SGWC-16	↓	S	S	S	S	S
SGWC-17	↓	S	S	S	S	S
SGWC-18	↓	S	S	Hole in pad	S	S
SGWC-19	↓	S	S	S	S	S
SGWC-20	↓	S	Lid difficult to close	S	S	S
SGWC-21	↓	S	S	S	S	S
SGWC-22	↓	S	S	S	S	S
SGWC-23	↓	S	S	S	S	S

**NOTES:**

1. Provide pictures of any deficiencies.
2. Notify SCS /GPC of any noted deficiencies.
3. Provide additional comments as necessary to address any deficiencies.

**APPENDIX C**

**DATA VALIDATION SUMMARIES  
FEBRUARY & MARCH 2020**

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## Quality Control Review of Analytical Data- Ash Pond AP-1 Submitted by Eurofins TestAmerica February- March 2020

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Inc. for groundwater samples collected at Plant Scherer CCR Ash Pond AP-1 between February 13, 2020 and March 27, 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 6020), Mercury in Liquid Wastes (USEPA Method 7470A), 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

<b>Laboratory Precision:</b>	Laboratory goals for precision were met.
<b>Field Precision:</b>	Field goals for precision were met.
<b>Accuracy:</b>	Laboratory goals for accuracy were met, with the exception of sulfate and radium-226, as described in the qualifications sections below.
<b>Detection Limits:</b>	Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
<b>Completeness:</b>	There were no rejected analytical results for this event, resulting in a completion of 100%.

**Holding Times:** All holding time requirements were met in accordance with specific analytical methods.

## QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of high levels of imprecision or inaccuracy, 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 that may be biased low.
- J+** The analyte was reported above the method detection limit; however, the concentration reported is an estimated value that may be biased high.
- U** The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site and reported in sample delivery groups (SDGs) 180-102430-1, 103766-1 and 180-103766-2 qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Certain mercury and thallium results in SDG 180-102430-1, certain cobalt, lead, thallium, fluoride, and boron results in SDG 180-103766-1 and radium-226 results in SDG 180-103766-2 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, when the original sample result was below the reporting limit (RL), the result was raised to the RL as part of the qualification process.
- A certain sulfate result in SDG 180-103766-1 was qualified as estimated biased low (J-) as the associated matrix spike and/or matrix spike duplicate (MS/MSD) recovery was below the QC criteria.
- A certain radium-226 result in SDG 180-103766-2 was qualified as estimated biased high (J+) as the associated laboratory control sample (LCS) recovery was above the QC criteria.

Golder reviewed the data from samples collected at Plant Scherer CCR Ash Pond AP- between February 13, 2020 and March 27, 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.

## 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 Scherer**

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Total Metals +Hg (6020, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium 226, Radium 228 (9315, 9320)
180-102430-1	SGWA-1	2/13/2020	180-102430-1	GW	-	X	X	X	X
180-102430-1	SGWA-2	2/13/2020	180-102430-2	GW	-	X	X	X	X
180-102430-1	SGWA-24	2/13/2020	180-102430-3	GW	-	X	X	X	X
180-102430-1	SGWA-3	2/18/2020	180-102583-1	GW	-	X	X	X	X
180-102430-1	SGWA-4	2/18/2020	180-102583-2	GW	-	X	X	X	X
180-102430-1	SGWC-6	2/18/2020	180-102583-3	GW	-	X	X	X	X
180-102430-1	SGWC-7	2/18/2020	180-102583-4	GW	-	X	X	X	X
180-102430-1	SGWC-8	2/18/2020	180-102583-5	GW	-	X	X	X	X
180-102430-1	SGWC-11	2/18/2020	180-102583-6	GW	-	X	X	X	X
180-102430-1	SGWC-20	2/18/2020	180-102583-7	GW	-	X	X	X	X
180-102430-1	SGWC-21	2/18/2020	180-102583-8	GW	-	X	X	X	X
180-102430-1	SGWC-22	2/18/2020	180-102583-9	GW	-	X	X	X	X
180-102430-1	SGWC-23	2/18/2020	180-102583-10	GW	-	X	X	X	X
180-102430-1	FB-1 (AP)	2/18/2020	180-102583-11	WQ	FB	X	X	X	X
180-102430-1	FD-1 (AP)	2/18/2020	180-102583-12	GW	SGWC-11	X	X	X	X
180-102430-1	SGWA-5	2/17/2020	180-102587-1	GW	-	X	X	X	X
180-102430-1	SGWA-25	2/17/2020	180-102587-2	GW	-	X	X	X	X
180-102430-1	SGWC-9	2/19/2020	180-102681-1	GW	-	X	X	X	X
180-102430-1	SGWC-10	2/19/2020	180-102681-2	GW	-	X	X	X	X
180-102430-1	SGWC-12	2/19/2020	180-102681-3	GW	-	X	X	X	X
180-102430-1	SGWC-13	2/19/2020	180-102681-4	GW	-	X	X	X	X
180-102430-1	SGWC-14	2/19/2020	180-102681-5	GW	-	X	X	X	X
180-102430-1	SGWC-15	2/19/2020	180-102681-6	GW	-	X	X	X	X
180-102430-1	SGWC-16	2/19/2020	180-102681-7	GW	-	X	X	X	X
180-102430-1	SGWC-17	2/19/2020	180-102681-8	GW	-	X	X	X	X
180-102430-1	SGWC19	2/19/2020	180-102681-9	GW	-	X	X	X	X
180-102430-1	FD-2(AP)	2/19/2020	180-102681-10	GW	FD (SGWC-9)	X	X	X	X
180-102430-1	FB-2(AP)	2/19/2020	180-102681-11	WQ	FB	X	X	X	X
180-102430-1	EB-1(AP)	2/19/2020	180-102681-12	WQ	EB	X	X	X	X
180-102430-1	EB-2(AP)	2/19/2020	180-102681-13	WQ	EB	X	X	X	X
180-102430-1	EB-3(AP)	2/19/2020	180-102681-14	WQ	EB	X	X	X	X
180-102430-1	SGWC-18	2/20/2020	180-102683-1	WQ	-	X	X	X	X
180-102430-1	FD-3 (AP)	2/20/2020	180-102683-2	GW	FD (SGWC-18)	X	X	X	X
180-102430-1	FB-3 (AP)	2/20/2020	180-102683-3	WQ	FB	X	X	X	X
180-103766-1/2	SGWA-5	3/17/2020	180-103766-1	GW	-	X	X	X	X
180-103766-1/2	SGWA-3	3/17/2020	180-103766-2	GW	-	X	X	X	X
180-103766-1/2	SGWA-2	3/17/2020	180-103766-3	GW	-	X	X	X	X
180-103766-1/2	SGWA-25	3/17/2020	180-103766-4	GW	-	X	X	X	X
180-103766-1/2	FB-1(AP)	3/17/2020	180-103766-5	WQ	FB	X	X	X	X
180-103766-1/2	SGWA-1	3/18/2020	180-103814-1	GW	-	X	X	X	X
180-103766-1/2	SGWA-4	3/18/2020	180-103814-2	GW	-	X	X	X	X
180-103766-1/2	SGWA-24	3/18/2020	180-103814-3	GW	-	X	X	X	X
180-103766-1/2	FD-1(AP)	3/18/2020	180-103814-4	GW	FD (SGWA-4)	-	X	X	-
180-103766-1/2	EB-1(AP)	3/18/2020	180-103814-5	WQ	EB	-	X	X	X
180-103766-1/2	SGWC-19	3/23/2020	180-103979-1	GW	-	X	X	X	X
180-103766-1/2	SGWC-20	3/23/2020	180-103979-2	GW	-	X	X	X	X
180-103766-1/2	SGWC-21	3/23/2020	180-103979-3	GW	-	X	X	X	X
180-103766-1/2	EB-2(AP)	3/23/2020	180-103979-4	WQ	EB	X	X	X	X
180-103766-1/2	FD-2(AP)	3/23/2020	180-103979-5	GW	FD (SGWC-20)	X	X	X	X
180-103766-1/2	SGWC-17	3/24/2020	180-104016-1	GW	-	X	X	X	X
180-103766-1/2	SGWC-23	3/24/2020	180-104016-2	GW	-	X	X	X	X
180-103766-1/2	SGWC-22	3/24/2020	180-104016-3	GW	-	X	X	X	X
180-103766-1/2	FB-2(AP)	3/24/2020	180-104016-4	WQ	FB	X	X	X	X
180-103766-1/2	SGWC-6	3/25/2020	180-104069-1	GW	-	X	X	X	X
180-103766-1/2	SGWC-8	3/25/2020	180-104069-2	GW	-	X	X	X	X
180-103766-1/2	SGWC-9	3/25/2020	180-104069-3	GW	-	X	X	X	X
180-103766-1/2	SGWC-10	3/25/2020	180-104069-4	GW	-	X	X	X	X
180-103766-1/2	SGWC-11	3/25/2020	180-104069-5	GW	-	X	X	X	X
180-103766-1/2	EB-3(AP)	3/25/2020	180-104069-6	WQ	EB	X	X	X	X
180-103766-1/2	FD-3(AP)	3/25/2020	180-104069-7	GW	FD (SGWC-11)	X	X	X	X
180-103766-1/2	SGWC-13	3/27/2020	180-104107-1	GW	-	X	X	X	X
180-103766-1/2	SGWC-14	3/27/2020	180-104107-2	GW	-	X	X	X	X

**TABLE 1**  
**Sample Summary Table**  
**SCS Plant Scherer**

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Total Metals +Hg (6020, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium 226, Radium 228 (9315, 9320)
180-103766-1/2	SGWC-15	3/27/2020	180-104107-3	GW	-	X	X	X	X
180-103766-1/2	SGWC-16	3/27/2020	180-104107-4	GW	-	X	X	X	X
180-103766-1/2	SGWC-7	3/26/2020	180-104108-1	GW	-	X	X	X	X
180-103766-1/2	SGWC-12	3/26/2020	180-104108-2	GW	-	X	X	X	X
180-103766-1/2	SGWC-18	3/26/2020	180-104108-3	GW	-	X	X	X	X
180-103766-1/2	FB-3 (AP)	3/26/2020	180-104108-4	WQ	FB	X	X	X	X

**Abbreviations:**

EB - Equipment blank

FB - Field blank

FD - Field duplicate

GW - Groundwater

WQ - Water quality water

QC - Quality control

Hg - Mercury

TDS - Total dissolved solids

**TABLE 2**  
**Qualifier Summary Table**  
**SCS Plant Scherer**

<b>SDG</b>	<b>Sample Name</b>	<b>Constituent</b>	<b>New Result</b>	<b>New MDL</b>	<b>New RL</b>	<b>Qualifier</b>	<b>Reason</b>
180-102430-1	SGWC-14	Mercury	0.0002	-	-	U	Method blank contamination
180-102430-1	SGWC-15	Mercury	0.0002	-	-	U	Method blank contamination
180-102430-1	SGWC-18	Thallium	0.00015	-	-	U	Method blank contamination
180-102430-1	FD-3 (AP)	Thallium	0.00015	-	-	U	Method blank contamination
180-103766-1	SGWA-1	Cobalt	0.0025	-	-	U	Blank contamination
180-103766-1	SGWA-1	Lead	0.001	-	-	U	Blank contamination
180-103766-1	SGWA-1	Thallium	0.001	-	-	U	Blank contamination
180-103766-1	SGWC-19	Fluoride	0.01	-	-	U	Blank contamination
180-103766-1	SGWC-20	Fluoride	-	-	0.25	U	Blank contamination
180-103766-1	SGWC-21	Fluoride	-	-	0.11	U	Blank contamination
180-103766-1	FD-2 (AP)	Fluoride	-	-	0.28	U	Blank contamination
180-103766-1	SGWA-5	Fluoride	0.01	-	-	U	Blank contamination
180-103766-1	SGWA-25	Fluoride	0.01	-	-	U	Blank contamination
180-103766-1	SGWA-3	Fluoride	0.01	-	-	U	Blank contamination
180-103766-1	SGWA-2	Fluoride	0.01	-	-	U	Blank contamination
180-103766-1	SGWC-7	Boron	0.08	-	-	U	Blank contamination
180-103766-2	SGWC-21	Radium-228	-	-	0.412	U	Blank contamination
180-103766-1	SGWC-22	Sulfate	-	-	-	J-	MS/MSD outside acceptance limits
180-103766-2	SGWC-23	Radium-226	-	-	-	J+	MS/MSD outside acceptance limits

**Abbreviations:**

MDL : Method Detection Limit

RL : Reporting limit

MS/MSD: Matrix spike/matrix spike duplicate

SDG : Sample delivery group

**Qualifiers:**

U : Non-detect result

J- : Estimated result, bias low

J+ : Estimated result, bias high

**APPENDIX C**

**DATA VALIDATION SUMMARIES  
SEPTEMBER 2020**

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## Quality Control Review of Analytical Data- Ash Pond AP-1 Submitted by Eurofins TestAmerica September 2020

This narrative presents results of the quality control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Inc. for groundwater samples collected at Plant Scherer CCR Ash Pond AP-1 between September 14, 2020 and September 15, 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), Determination of Inorganic Anions By Ion Chromatography (USEPA Method 300.0), and Total Dissolved Solids (Standard Methods 2540C).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program (CLP) Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0), US EPA Region IV Data Validation Standard Operating Procedures for CLP Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2.0), the National Functional Guidelines for Inorganic Superfund Methods Data Review (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

<b>Laboratory Precision:</b>	Laboratory goals for precision were met.
<b>Field Precision:</b>	Field goals for precision were met with the exception.
<b>Accuracy:</b>	Laboratory goals for accuracy were met.
<b>Detection Limits:</b>	Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
<b>Completeness:</b>	There were no rejected analytical results for this event, resulting in a completion of 100%.
<b>Holding Times:</b>	All holding time requirements were met in accordance with specific analytical methods.

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## QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of high levels of imprecision or inaccuracy, 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 positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- U** The analyte was not detected above the method detection limit.

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. Although these qualifications were applied to some data from samples collected at the site and reported in sample delivery group (SDG) 180-11040-1 qualifications may not have been required or applied to all samples collected. A summary of sample qualifications can be found in Table 2.

- Certain boron and beryllium results in SDG 180-11040-1, 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.

Golder reviewed the data from samples collected at Plant Scherer CCR Ash Pond AP- between September 14, 2020 and September 15, 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.

## REFERENCE

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 - AP-1**  
**SCS Plant Scherer**

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Total Metals (6020B)	Mercury (EPA 7470A)	Anions (300.0)	TDS (SM 2540C)
180-111040-1	SGWA-1	9/14/2020	180-111040-1	GW	-	X	X	X	X
180-111040-1	SGWA-2	9/14/2020	180-111040-2	GW	-	X	X	X	X
180-111040-1	SGWA-3	9/14/2020	180-111040-3	GW	-	X	X	X	X
180-111040-1	SGWA-4	9/14/2020	180-111040-4	GW	-	X	X	X	X
180-111040-1	SGWA-5	9/14/2020	180-111040-5	GW	-	X	X	X	X
180-111040-1	SGWA-24	9/14/2020	180-111040-6	GW	-	X	X	X	X
180-111040-1	SGWA-25	9/14/2020	180-111040-7	GW	-	X	X	X	X
180-111040-1	SGWC-6	9/14/2020	180-111040-8	GW	-	X	X	X	X
180-111040-1	SGWC-7	9/14/2020	180-111040-9	GW	-	X	X	X	X
180-111040-1	SGWC-8	9/14/2020	180-111040-10	GW	-	X	X	X	X
180-111040-1	SGWC-9	9/14/2020	180-111040-11	GW	-	X	X	X	X
180-111040-1	SGWC-10	9/14/2020	180-111040-12	GW	-	X	X	X	X
180-111040-1	SGWC-11	9/14/2020	180-111040-13	GW	-	X	X	X	X
180-111040-1	SGWC-12	9/14/2020	180-111040-14	GW	-	X	X	X	X
180-111040-1	SGWC-13	9/14/2020	180-111040-15	GW	-	X	X	X	X
180-111040-1	FB-1 (AP)	9/14/2020	180-111040-16	WQ	FB (SGWA-4)	X	X	X	X
180-111040-1	EB-1 (AP)	9/14/2020	180-111040-17	WQ	EB (SGWA-13)	X	X	X	X
180-111040-1	FD-1 (AP)	9/14/2020	180-111040-18	GW	FD (SGWC-9)	X	X	X	X
180-111040-1	SGWC-14	9/15/2020	180-111111-1	GW	-	X	X	X	X
180-111040-1	SGWC-15	9/15/2020	180-111111-2	GW	-	X	X	X	X
180-111040-1	SGWC-16	9/15/2020	180-111111-3	GW	-	X	X	X	X
180-111040-1	SGWC-17	9/15/2020	180-111111-4	GW	-	X	X	X	X
180-111040-1	SGWC-18	9/15/2020	180-111111-5	GW	-	X	X	X	X
180-111040-1	SGWC19	9/15/2020	180-111111-6	GW	-	X	X	X	X
180-111040-1	SGWC-20	9/15/2020	180-111111-7	GW	-	X	X	X	X
180-111040-1	SGWC-21	9/15/2020	180-111111-8	GW	-	X	X	X	X
180-111040-1	SGWC-22	9/15/2020	180-111111-9	GW	-	X	X	X	X
180-111040-1	SGWC-23	9/15/2020	180-111111-10	GW	-	X	X	X	X
180-111040-1	FD-2 (AP)	9/15/2020	180-111111-11	GW	FD (SGWC-18)	X	X	X	X
180-111040-1	EB-2 (AP)	9/15/2020	180-111111-12	WQ	EB (SGWC-19)	X	X	X	X
180-111040-1	FB-2 (AP)	9/15/2020	180-111111-13	WQ	FB (SGWC-14)	X	X	X	X

**Abbreviations:**

EB - Equipment blank  
 FB - Field blank  
 FD - Field duplicate  
 GW - Groundwater  
 WQ - Water quality water  
 QC - Quality control  
 Hg - Mercury  
 TDS - Total dissolved solids



TABLE 2

**Qualifier Summary Table  
SCS Plant Scherer**

<b>SDG</b>	<b>Sample Name</b>	<b>Constituent</b>	<b>New Result</b>	<b>New RL or MDC</b>	<b>Qualifier</b>	<b>Reason</b>
180-111040-1	SGWC-20	Beryllium	0.0025	-	U	Method blank contamination
180-111040-1	SGWC-22	Beryllium	0.0025	-	U	Method blank contamination
180-111040-1	FD-2 (AP)	Beryllium	0.0025	-	U	Method blank contamination

**Abbreviations:**

MDC: Minimum Detectable Concentration

RL : Reporting limit

SDG : Sample delivery group

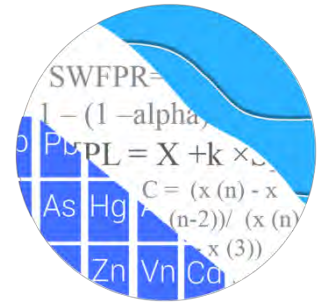
**Qualifiers:**

U : Non-detect result

**APPENDIX D**

**STATISTICAL ANALYSES  
MARCH 2020**

## GROUNDWATER STATS CONSULTING



August 26, 2020

Southern Company Services  
Attn: Mr. Joju Abraham  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308-3374

Re: Plant Scherer Ash Pond (AP)  
Statistical Analysis March 2020

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2020 Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary of the analysis of groundwater data for Georgia Power Company's Plant Scherer AP. 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 the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** SGWA-1, SGWA-2, SGWA-3, SGWA-4, SGWA-5, SGWA-24, and SGWA-25
- **Downgradient wells:** SGWC-6, SGWC-7, SGWC-8, SGWC-9, SGWC-10, and SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, and SGWC-23

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 provided 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 following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228 fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects follows this letter. A substitution of the most recent reporting limit is used for nondetect data.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of

statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. 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.

### **Summary of Statistical Methods – Appendix III Parameters:**

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are 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. While this was not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting 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.

### **Statistical Analysis of Appendix III Parameters – March 2020**

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2020 (Figure D). 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 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. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

- Boron: SGWC-11 and SGWC-18
- Calcium: SGWA-4 (upgradient), SGWC-17, GWC-19, and SGWC-22
- Chloride: SGWC-9, SGWC-13, SGWC-18, and SGWC-21
- Sulfate: SGWC-12, SGWC-16, SGWC-17, SGWC-21, and SGWC-22
- TDS: SGWC-17

Decreasing:

- Calcium: SGWC-7
- Chloride: SGWA-3 (upgradient), SGWC-7, and SGWC-8
- Fluoride: SGWC-7 and SGWC-20
- Sulfate: SGWA-4 (upgradient), SGWC-7, SGWC-20, and SGWC-23

### **Statistical Analysis of Appendix IV Parameters – March 2020**

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. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. 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 level (RSLs) 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 and the CCR Rule, State and Federal GWPS were established for statistical comparison of Appendix IV constituents for the March 2020 sample event (Figures G and H, respectively). To complete the statistical comparison to GWPS, State and Federal confidence intervals were constructed for the Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures I and J, respectively). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. The 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. Summaries of the confidence intervals follow this letter. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Exceedances were noted for the following well/constituent pairs:

Federal and State:

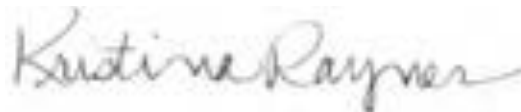
- Cobalt: SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Scherer AP. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins  
Groundwater Analyst



Kristina L. Rayner  
Groundwater Statistician



# 100% Nondetect Well-Constituent Pairs

Date: 6/11/2020 11:08 AM

Plant Scherer Client: Southern Company Data: Scherer AP

**Antimony (mg/L)**

SGWA-2, SGWA-5, SGWC-11, SGWC-12, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23, SGWC-6, SGWC-8, SGWC-9

**Beryllium (mg/L)**

SGWA-2, SGWA-24, SGWA-25, SGWA-3, SGWA-5, SGWC-11, SGWC-12, SGWC-13, SGWC-16, SGWC-17, SGWC-21, SGWC-22, SGWC-23, SGWC-7, SGWC-9

**Boron, total (mg/L)**

SGWA-24, SGWA-5

**Cadmium (mg/L)**

SGWA-2, SGWA-24, SGWA-25, SGWA-3, SGWA-4, SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-16, SGWC-17, SGWC-22, SGWC-23, SGWC-7, SGWC-9

**Chromium (mg/L)**

SGWC-10, SGWC-11, SGWC-6, SGWC-7, SGWC-9

**Cobalt (mg/L)**

SGWA-5

**Fluoride, total (mg/L)**

SGWA-1

**Lead (mg/L)**

SGWA-2, SGWA-25, SGWA-5, SGWC-11, SGWC-12, SGWC-17, SGWC-18, SGWC-19, SGWC-9

**Lithium (mg/L)**

SGWA-2, SGWA-4, SGWC-10, SGWC-6, SGWC-9

**Mercury (mg/L)**

SGWC-19

**Molybdenum (mg/L)**

SGWA-1, SGWA-2, SGWA-24, SGWA-25, SGWA-5, SGWC-10, SGWC-11, SGWC-13, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23

**Selenium (mg/L)**

SGWC-10, SGWC-21, SGWC-22, SGWC-8, SGWC-9

**Thallium (mg/L)**

SGWA-2, SGWA-24, SGWA-25, SGWA-5, SGWC-16, SGWC-17, SGWC-19, SGWC-21, SGWC-22, SGWC-23

# Outlier Summary

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:46 PM

	SGWC-20 Lithium (mg/L)	SGWC-7 Lithium (mg/L)
5/11/2016		<0.05 (O)
5/12/2016	<0.05 (O)	

# Appendix III Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-11	0.13	n/a	3/25/2020	0.45	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-13	0.13	n/a	3/27/2020	0.49	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-14	0.13	n/a	3/27/2020	1.5	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-15	0.13	n/a	3/27/2020	1.4	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-16	0.13	n/a	3/27/2020	0.59	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-17	0.13	n/a	3/24/2020	0.37	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-18	0.13	n/a	3/26/2020	6	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-19	0.13	n/a	3/23/2020	1.7	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-20	0.13	n/a	3/23/2020	1.9	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-21	0.13	n/a	3/23/2020	0.83	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-22	0.13	n/a	3/24/2020	0.34	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-23	0.13	n/a	3/24/2020	0.55	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-9	0.13	n/a	3/25/2020	1.6	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	SGWC-12	19	n/a	3/26/2020	22	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-14	19	n/a	3/27/2020	41	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-17	19	n/a	3/24/2020	58	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-18	19	n/a	3/26/2020	81	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-19	19	n/a	3/23/2020	46	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-21	19	n/a	3/23/2020	36	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-22	19	n/a	3/24/2020	31	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-23	19	n/a	3/24/2020	22	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-7	19	n/a	3/26/2020	21	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-8	19	n/a	3/25/2020	48	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-9	19	n/a	3/25/2020	55	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	SGWC-10	3.089	n/a	3/25/2020	8.8	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3.089	n/a	3/25/2020	9	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3.089	n/a	3/26/2020	9.4	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3.089	n/a	3/27/2020	9	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3.089	n/a	3/27/2020	11	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3.089	n/a	3/27/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3.089	n/a	3/27/2020	8.5	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3.089	n/a	3/24/2020	7.8	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3.089	n/a	3/26/2020	12	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3.089	n/a	3/23/2020	7.7	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3.089	n/a	3/23/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3.089	n/a	3/23/2020	11	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3.089	n/a	3/24/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3.089	n/a	3/24/2020	9.1	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-7	3.089	n/a	3/26/2020	5.1	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-8	3.089	n/a	3/25/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-9	3.089	n/a	3/25/2020	15	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Fluoride, total (mg/L)	SGWC-15	0.108	n/a	3/27/2020	0.13	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-20	0.108	n/a	3/23/2020	0.25	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-21	0.108	n/a	3/23/2020	0.11	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-6	0.108	n/a	3/25/2020	0.13	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-7	0.108	n/a	3/26/2020	0.14	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-8	0.108	n/a	3/25/2020	0.31	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-15	6.87	5.09	3/27/2020	4.51	Yes	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-18	6.87	5.09	3/26/2020	4.74	Yes	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-20	6.87	5.09	3/23/2020	4.19	Yes	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-10	3.75	n/a	3/25/2020	14	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-12	3.75	n/a	3/26/2020	44	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-13	3.75	n/a	3/27/2020	81	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-14	3.75	n/a	3/27/2020	180	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-15	3.75	n/a	3/27/2020	190	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-16	3.75	n/a	3/27/2020	35	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate, total (mg/L)	SGWC-17	3.75	n/a	3/24/2020	190	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-18	3.75	n/a	3/26/2020	1000	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-19	3.75	n/a	3/23/2020	250	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-20	3.75	n/a	3/23/2020	220	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-21	3.75	n/a	3/23/2020	120	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-22	3.75	n/a	3/24/2020	100	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-23	3.75	n/a	3/24/2020	71	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-7	3.75	n/a	3/26/2020	15	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-8	3.75	n/a	3/25/2020	62	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-9	3.75	n/a	3/25/2020	300	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	3/27/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	3/27/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	3/24/2020	430	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	3/26/2020	1600	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	3/23/2020	390	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	3/23/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	3/23/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	3/24/2020	250	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	3/24/2020	210	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	3/25/2020	360	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	3/25/2020	540	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2





# Appendix III Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	3/27/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	3/27/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-16	200	n/a	3/27/2020	99	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	3/24/2020	430	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	3/26/2020	1600	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	3/23/2020	390	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	3/23/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	3/23/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	3/24/2020	250	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	3/24/2020	210	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-6	200	n/a	3/25/2020	94	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-7	200	n/a	3/26/2020	180	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	3/25/2020	360	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	3/25/2020	540	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:56 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>
Boron, total (mg/L)	SGWC-11	0.05141	82	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-18	0.4938	53	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-4 (bg)	1.025	57	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-17	5.685	76	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-19	2.231	54	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-22	2.039	61	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-7	-2.838	-60	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-3 (bg)	-0.4335	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-13	0.7317	55	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-18	2.444	70	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-21	0.7892	57	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-7	-0.8428	-75	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-8	-0.6822	-56	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-9	1.476	67	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-20	-0.03715	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-7	-0.01539	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-4 (bg)	-0.3042	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-12	6.134	65	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-16	6.253	85	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-17	18.73	77	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-20	-13.39	-52	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-21	6.001	51	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-22	5.269	55	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-23	-12	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-7	-1.937	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	28.55	66	48	Yes	14	0	n/a	n/a	0.01	NP



# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:56 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>
Boron, total (mg/L)	SGWA-1 (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-2 (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-24 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-25 (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-3 (bg)	0	1	48	No	14	85.71	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-4 (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-5 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>SGWC-11</b>	<b>0.05141</b>	<b>82</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	SGWC-13	-0.02517	-47	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-14	0.04074	27	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-15	0	-8	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-16	0.003244	14	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-17	0.04325	34	48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>SGWC-18</b>	<b>0.4938</b>	<b>53</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	SGWC-19	0	0	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-20	0	0	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-21	-0.06919	-34	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-22	0.01094	11	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-23	-0.01798	-25	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-9	0	16	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-1 (bg)	-0.2047	-42	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-2 (bg)	0.5091	45	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-24 (bg)	0.5598	39	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-25 (bg)	-0.5046	-36	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-3 (bg)	-0.1642	-21	-48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWA-4 (bg)</b>	<b>1.025</b>	<b>57</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWA-5 (bg)	0	12	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-12	0	1	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-14	0.7636	31	48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-17</b>	<b>5.685</b>	<b>76</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-18	9.39	24	48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-19</b>	<b>2.231</b>	<b>54</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-21	0.36	17	48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-22</b>	<b>2.039</b>	<b>61</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-23	-1.669	-37	-48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-7</b>	<b>-2.838</b>	<b>-60</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-8	0.869	25	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-9	0.4345	13	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-1 (bg)	-0.1384	-44	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-2 (bg)	-0.07733	-43	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-24 (bg)	-0.04722	-25	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-25 (bg)	-0.07799	-13	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWA-3 (bg)</b>	<b>-0.4335</b>	<b>-67</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWA-4 (bg)	-0.08034	-36	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-5 (bg)	-0.09759	-46	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-10	-0.2179	-31	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-11	-0.2005	-21	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-12	0.1359	27	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-13</b>	<b>0.7317</b>	<b>55</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-14	0	-24	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-15	0	3	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-16	0.04932	8	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-17	-0.1527	-41	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-18</b>	<b>2.444</b>	<b>70</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-19	-0.1441	-38	-48	No	14	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:56 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	SGWC-20	0	7	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-21</b>	<b>0.7892</b>	<b>57</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-22	0	-4	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-23	0	2	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-7</b>	<b>-0.8428</b>	<b>-75</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>SGWC-8</b>	<b>-0.6822</b>	<b>-56</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>SGWC-9</b>	<b>1.476</b>	<b>67</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWA-1 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-2 (bg)	0	-31	-63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-24 (bg)	0	-25	-63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-25 (bg)	0	-26	-63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-3 (bg)	0	1	63	No	17	70.59	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-4 (bg)	0	-37	-63	No	17	52.94	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-5 (bg)	0	1	63	No	17	88.24	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-15	0	0	63	No	17	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>SGWC-20</b>	<b>-0.03715</b>	<b>-72</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWC-21	0	-19	-63	No	17	41.18	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-6	-0.003401	-17	-63	No	17	17.65	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>SGWC-7</b>	<b>-0.01539</b>	<b>-68</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWC-8	-0.03436	-45	-63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-1 (bg)	-0.04921	-40	-53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-2 (bg)	0.02062	13	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-24 (bg)	0	-2	-53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-25 (bg)	-0.02203	-36	-53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-3 (bg)	0.0302	23	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-4 (bg)	0	0	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-5 (bg)	0.02566	17	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-15	-0.0315	-38	-53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-18	0.006926	9	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-20	-0.006939	-5	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-1 (bg)	-0.06807	-13	-48	No	14	28.57	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-2 (bg)	0.03617	37	48	No	14	64.29	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-24 (bg)	0	-1	-48	No	14	85.71	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-25 (bg)	0	-13	-48	No	14	78.57	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-3 (bg)	-0.145	-20	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWA-4 (bg)</b>	<b>-0.3042</b>	<b>-51</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWA-5 (bg)	0	34	48	No	14	78.57	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-10	0.5177	7	48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-12</b>	<b>6.134</b>	<b>65</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-13	0	0	48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-14	0	-16	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-15	0	0	48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-16</b>	<b>6.253</b>	<b>85</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-17</b>	<b>18.73</b>	<b>77</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-18	139.1	32	48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-19	9.696	34	48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-20</b>	<b>-13.39</b>	<b>-52</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-21</b>	<b>6.001</b>	<b>51</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-22</b>	<b>5.269</b>	<b>55</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-23</b>	<b>-12</b>	<b>-63</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-7</b>	<b>-1.937</b>	<b>-49</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-8	1.868	31	48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-9	4.716	21	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-1 (bg)	-8.512	-35	-48	No	14	7.143	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-2 (bg)	0	-5	-48	No	14	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 3

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:56 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>
Total Dissolved Solids [TDS] (mg/L)	SGWA-24 (bg)	0	-1	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-25 (bg)	-10.27	-36	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-3 (bg)	-5.131	-12	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-4 (bg)	11.15	30	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-5 (bg)	-6.069	-25	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	0	1	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	6.566	24	48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>SGWC-17</b>	<b>28.55</b>	<b>66</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	199	29	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	0	4	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	-6.518	-14	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	-0.4051	-11	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	12.43	39	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	-18.96	-29	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	-3.386	-13	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	11.62	20	48	No	14	0	n/a	n/a	0.01	NP

# Tolerance Limit Summary Table

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0021	n/a	n/a	n/a	n/a	91	n/a	n/a	93.41	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0015	n/a	n/a	n/a	n/a	112	n/a	n/a	82.14	n/a	n/a	0.003199	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	112	n/a	n/a	0	n/a	n/a	0.003199	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	112	n/a	n/a	95.54	n/a	n/a	0.003199	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	105	n/a	n/a	98.1	n/a	n/a	0.004581	NP Inter(NDs)
Chromium (mg/L)	n/a	0.02	n/a	n/a	n/a	n/a	112	n/a	n/a	33.04	n/a	n/a	0.003199	NP Inter(normality)
Cobalt (mg/L)	n/a	0.02	n/a	n/a	n/a	n/a	112	n/a	n/a	63.39	n/a	n/a	0.003199	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.2	n/a	n/a	n/a	n/a	112	n/a	n/a	0	n/a	n/a	0.003199	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.108	n/a	n/a	n/a	n/a	119	n/a	n/a	69.75	n/a	n/a	0.002234	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	112	n/a	n/a	94.64	n/a	n/a	0.003199	NP Inter(NDs)
Lithium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	112	n/a	n/a	91.07	n/a	n/a	0.003199	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	114	n/a	n/a	88.6	n/a	n/a	0.002887	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a	105	n/a	n/a	88.57	n/a	n/a	0.004581	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	112	n/a	n/a	88.39	n/a	n/a	0.003199	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	112	n/a	n/a	93.75	n/a	n/a	0.003199	NP Inter(NDs)

<b>SCHERER ASH POND GWPS - FEDERAL</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.0021	0.006
Arsenic, Total (mg/L)	0.01		0.0015	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.02	0.1
Cobalt, Total (mg/L)		0.006	0.02	0.02
Combined Radium, Total (pCi/L)	5		1.2	5
Fluoride, Total (mg/L)	4		0.108	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.005	0.04
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

*\*GWPS = Groundwater Protection Standard*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residuals*

<b>SCHERER ASH POND GWPS - STATE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.0021	0.006
Arsenic, Total (mg/L)	0.01		0.0015	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.02	0.1
Cobalt, Total (mg/L)		0.006	0.02	0.02
Combined Radium, Total (pCi/L)	5		1.2	5
Fluoride, Total (mg/L)	4		0.108	4
Lead, Total (mg/L)		0.015	0.001	0.001
Lithium, Total (mg/L)		0.04	0.005	0.005
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.015
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

*\*GWPS = Groundwater Protection Standard*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residuals*

# Federal Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:39 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	SGWC-10	0.03322	0.02069	0.02	Yes 16	0.02696	0.009627	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-11	0.03018	0.02357	0.02	Yes 16	0.02688	0.005085	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-15	0.2797	0.2606	0.02	Yes 16	0.2701	0.01468	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-18	0.1665	0.1181	0.02	Yes 16	0.1423	0.03716	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-20	0.2313	0.1689	0.02	Yes 16	0.2001	0.04797	0	None	No	0.01	Param.

# Federal Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	SGWC-10	0.002	0.0014	0.006	No	12	0.00195	0.0001732	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-13	0.002	0.0004	0.006	No	12	0.001867	0.0004619	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-18	0.002	0.002	0.006	No	11	0.001927	0.0002412	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	SGWC-7	0.002	0.0004	0.006	No	12	0.001867	0.0004619	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	16	0.0009269	0.0001633	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.0011	0.00076	0.01	No	16	0.001007	0.0001144	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-12	0.0011	0.00046	0.01	No	16	0.0008606	0.0002722	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	16	0.000965	0.0001883	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	16	0.0009656	0.0002053	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.001318	0.0008083	0.01	No	16	0.001204	0.0005106	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	16	0.0009431	0.0001554	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001045	0.00075	0.01	No	16	0.0009247	0.0001461	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.002987	0.001444	0.01	No	16	0.002216	0.001186	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	16	0.0009538	0.0001277	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.0018	0.0005	0.01	No	16	0.0009238	0.0003349	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	16	0.000985	0.00006	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.0006	0.01	No	16	0.0008863	0.0002343	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	16	0.0009625	0.0001076	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	16	0.0009063	0.0002041	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.00059	0.01	No	16	0.00089	0.0001836	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.00053	0.01	No	16	0.0008606	0.0002276	62.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00068	0.01	No	16	0.0008719	0.0001968	50	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-10	0.03308	0.02801	2	No	16	0.03054	0.0039	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.042	0.03679	2	No	16	0.03939	0.003998	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.052	0.0321	2	No	16	0.04216	0.008973	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-13	0.03368	0.02552	2	No	16	0.0296	0.006267	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.06131	0.05316	2	No	16	0.05724	0.006267	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.04004	0.0339	2	No	16	0.03697	0.004713	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.027	0.017	2	No	16	0.02143	0.004687	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-17	0.02176	0.01821	2	No	16	0.01999	0.002729	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.032	0.013	2	No	16	0.02096	0.008194	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-19	0.04262	0.03491	2	No	16	0.03876	0.005929	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03641	0.02674	2	No	16	0.03158	0.007429	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.09766	0.08992	2	No	16	0.09379	0.005947	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-22	0.09365	0.08261	2	No	16	0.08813	0.008485	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.0882	0.07287	2	No	16	0.08054	0.011178	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-6	0.09899	0.05454	2	No	16	0.07677	0.03416	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.3078	0.2569	2	No	16	0.2824	0.03913	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.2	0.17	2	No	16	0.1841	0.02205	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-9	0.06978	0.05595	2	No	16	0.06287	0.01063	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	16	0.00236	0.00056	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	16	0.002377	0.0004925	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00059	0.00035	0.004	No	16	0.0007962	0.0008477	18.75	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-18	0.0025	0.00033	0.004	No	16	0.001563	0.001098	56.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	16	0.00221	0.0007925	87.5	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0008151	0.0006414	0.004	No	16	0.0007283	0.0001335	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	16	0.002356	0.000575	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	16	0.002218	0.0007705	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	15	0.002214	0.0007599	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.0003	0.005	No	15	0.001493	0.001115	53.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-18	0.0025	0.0002	0.005	No	15	0.001739	0.001114	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	15	0.002357	0.0005525	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	15	0.002181	0.0008431	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	15	0.002359	0.0005448	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	15	0.002348	0.0005887	93.33	None	No	0.01	NP (NDs)



# Federal Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	15	0.002354	0.0005655	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	16	0.002019	0.000075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	16	0.001981	0.000075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-14	0.0026	0.0016	0.1	No	16	0.001831	0.0004316	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03532	0.03223	0.1	No	16	0.03378	0.002373	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01155	0.009227	0.1	No	16	0.01043	0.001832	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	SGWC-17	0.006314	0.003767	0.1	No	16	0.005041	0.001958	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.009357	0.00702	0.1	No	16	0.008188	0.001796	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01609	0.01431	0.1	No	16	0.0152	0.001371	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	16	0.001944	0.0002828	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.0016	0.1	No	16	0.001894	0.0002407	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0024	0.0015	0.1	No	16	0.001813	0.0004334	68.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0024	0.0013	0.1	No	16	0.00185	0.0004033	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0013	0.1	No	16	0.001825	0.0004879	50	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-10</b>	<b>0.03322</b>	<b>0.02069</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.02696</b>	<b>0.009627</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>SGWC-11</b>	<b>0.03018</b>	<b>0.02357</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.02688</b>	<b>0.005085</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-12	0.004258	0.003054	0.02	No	16	0.003686	0.0009908	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.008664	0.003761	0.02	No	16	0.006213	0.003768	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01255	0.007132	0.02	No	16	0.009841	0.004163	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>SGWC-15</b>	<b>0.2797</b>	<b>0.2606</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.2701</b>	<b>0.01468</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-16	0.004076	0.00329	0.02	No	16	0.003683	0.0006036	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.0025	0.00041	0.02	No	16	0.001034	0.000886	25	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-18</b>	<b>0.1665</b>	<b>0.1181</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.1423</b>	<b>0.03716</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-19	0.0025	0.00015	0.02	No	16	0.001492	0.001063	50	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-20</b>	<b>0.2313</b>	<b>0.1689</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.2001</b>	<b>0.04797</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-21	0.0025	0.00014	0.02	No	16	0.001906	0.001063	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003758	0.00211	0.02	No	16	0.003006	0.001368	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	16	0.002352	0.0005925	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.002537	0.000925	0.02	No	16	0.002013	0.001219	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	SGWC-7	0.01199	0.005668	0.02	No	16	0.008831	0.004861	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.00265	0.00032	0.02	No	16	0.001871	0.001012	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01399	0.007868	0.02	No	16	0.01093	0.004708	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.496	0.0159	5	No	16	0.323	0.3868	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.5635	0.1801	5	No	16	0.3718	0.2946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4647	0.1447	5	No	16	0.3047	0.246	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4462	0.1087	5	No	16	0.2775	0.2594	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.4147	0.07217	5	No	16	0.2434	0.2633	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.478	0.2068	5	No	16	0.3424	0.2084	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.4004	0.117	5	No	16	0.2587	0.2178	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.4117	0.1464	5	No	16	0.2791	0.2039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.4168	0.1967	5	No	16	0.3067	0.1691	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.3244	0.07902	5	No	16	0.2017	0.1886	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.6175	0.2923	5	No	16	0.4549	0.2499	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.4553	0.1687	5	No	16	0.312	0.2202	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.4219	0.1322	5	No	16	0.3019	0.2581	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6481	0.3742	5	No	16	0.5112	0.2105	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.4151	0.1073	5	No	16	0.2612	0.2365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.5146	0.2898	5	No	16	0.4022	0.1728	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.585	2.017	5	No	16	2.301	0.4365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.4077	0.1099	5	No	16	0.2588	0.2288	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-10	0.1	0.031	4	No	17	0.09118	0.025	88.24	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	17	0.09241	0.01883	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.1079	0.06648	4	No	17	0.09588	0.03159	23.53	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.15	0.045	4	No	17	0.08847	0.03118	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.031	4	No	17	0.07976	0.03244	70.59	Kaplan-Meier	No	0.01	NP (NDs)

# Federal Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	17	0.1417	0.06142	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.09	4	No	17	0.08988	0.02694	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.1	0.047	4	No	17	0.08559	0.03309	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-18	0.18	0.091	4	No	17	0.09349	0.03253	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.18	0.057	4	No	17	0.09704	0.03136	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2758	0.1876	4	No	17	0.2346	0.0754	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09982	0.06935	4	No	17	0.09465	0.02244	41.18	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.1	4	No	17	0.08806	0.02669	76.47	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-23	0.1	0.044	4	No	17	0.08024	0.02659	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-6	0.14	0.092	4	No	17	0.1192	0.03685	17.65	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-7	0.2256	0.1809	4	No	17	0.2032	0.03566	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.477	0.3632	4	No	17	0.4201	0.09082	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.1	0.074	4	No	17	0.08912	0.02156	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.015	No	16	0.0008919	0.0002955	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.015	No	16	0.0009619	0.0001525	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.015	No	16	0.0009263	0.0002212	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.015	No	16	0.0009519	0.0001925	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.015	No	16	0.0009456	0.0002175	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00027	0.015	No	16	0.0007038	0.0003528	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-21	0.001	0.00009	0.015	No	16	0.0009431	0.0002275	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00018	0.015	No	16	0.0009488	0.000205	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.015	No	16	0.0009431	0.0002275	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.015	No	16	0.00095	0.0002	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.015	No	16	0.0009906	0.0000375	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00029	0.015	No	16	0.0009556	0.0001775	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.04	No	16	0.003987	0.001431	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0011	0.04	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.04	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0011	0.04	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.003	0.04	No	16	0.004125	0.0009815	50	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.04	No	16	0.004781	0.000875	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.04	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004682	0.003727	0.04	No	16	0.004662	0.0006908	31.25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.04	No	16	0.004644	0.0009736	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004934	0.003919	0.04	No	15	0.004427	0.0007488	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0027	0.04	No	16	0.004356	0.001249	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.04	No	16	0.0045	0.001151	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.04	No	16	0.004162	0.0008884	37.5	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-7	0.005447	0.0041	0.04	No	15	0.004773	0.0009939	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.002	0.04	No	16	0.004031	0.001497	68.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	16	0.0001956	0.0000175	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	16	0.0001933	0.00002675	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	16	0.0001818	0.00003952	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00011	0.002	No	16	0.0001504	0.00004629	37.5	None	No	0.01	NP (normality)
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	16	0.0001922	0.000031	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00011	0.002	No	16	0.0001887	0.00003074	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.0001862	0.00009871	0.002	No	16	0.0001754	0.00004905	31.25	Kaplan-Meier	x^2	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.000082	0.002	No	16	0.0001847	0.00004187	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	16	0.0001937	0.00002525	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	16	0.0001857	0.00004896	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)

# Federal Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	16	0.0001922	0.000031	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.1	No	15	0.01315	0.004873	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.1	No	15	0.01325	0.004626	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.1	No	15	0.01311	0.004981	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.015	0.0013	0.1	No	15	0.005502	0.005978	26.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.1	No	15	0.01405	0.003666	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00075	0.1	No	15	0.007569	0.007203	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No	16	0.004716	0.001135	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No	16	0.004707	0.001172	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No	16	0.004434	0.001549	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No	16	0.004469	0.001452	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.003479	0.0008276	0.05	No	16	0.003881	0.002926	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	SGWC-16	0.005	0.0012	0.05	No	16	0.003596	0.001896	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No	16	0.004135	0.001861	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.01429	0.004705	0.05	No	16	0.01029	0.008488	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00096	0.05	No	16	0.004193	0.001737	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.0053	0.00066	0.05	No	16	0.003647	0.001995	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00033	0.05	No	16	0.004112	0.001908	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No	16	0.004139	0.001851	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No	16	0.004709	0.001165	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No	16	0.0009281	0.0002295	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No	16	0.0009475	0.00021	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No	16	0.0009588	0.000165	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00018	0.002	No	16	0.000955	0.0002082	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.000095	0.002	No	16	0.0004739	0.0004315	37.5	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-18	0.00029	0.00012	0.002	No	16	0.0002503	0.0002405	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00021	0.00014	0.002	No	16	0.0002269	0.000213	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No	16	0.0009231	0.0002135	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00022	0.002	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No	16	0.0008888	0.0002682	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.00027	0.002	No	16	0.0009544	0.0001825	93.75	None	No	0.01	NP (NDs)

# State Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:37 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	SGWC-10	0.03322	0.02069	0.02	Yes 16	0.02696	0.009627	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-11	0.03018	0.02357	0.02	Yes 16	0.02688	0.005085	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-15	0.2797	0.2606	0.02	Yes 16	0.2701	0.01468	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-18	0.1665	0.1181	0.02	Yes 16	0.1423	0.03716	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-20	0.2313	0.1689	0.02	Yes 16	0.2001	0.04797	0	None	No	0.01	Param.

# State Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	SGWC-10	0.002	0.0014	0.006	No	12	0.00195	0.0001732	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-13	0.002	0.0004	0.006	No	12	0.001867	0.0004619	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-18	0.002	0.002	0.006	No	11	0.001927	0.0002412	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	SGWC-7	0.002	0.0004	0.006	No	12	0.001867	0.0004619	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	16	0.0009269	0.0001633	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.0011	0.00076	0.01	No	16	0.001007	0.0001144	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-12	0.0011	0.00046	0.01	No	16	0.0008606	0.0002722	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	16	0.000965	0.0001883	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	16	0.0009656	0.0002053	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.001318	0.0008083	0.01	No	16	0.001204	0.0005106	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	16	0.0009431	0.0001554	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001045	0.00075	0.01	No	16	0.0009247	0.0001461	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.002987	0.001444	0.01	No	16	0.002216	0.001186	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	16	0.0009538	0.0001277	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.0018	0.0005	0.01	No	16	0.0009238	0.0003349	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	16	0.000985	0.00006	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.0006	0.01	No	16	0.0008863	0.0002343	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	16	0.0009625	0.0001076	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	16	0.0009063	0.0002041	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.00059	0.01	No	16	0.00089	0.0001836	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.00053	0.01	No	16	0.0008606	0.0002276	62.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00068	0.01	No	16	0.0008719	0.0001968	50	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-10	0.03308	0.02801	2	No	16	0.03054	0.0039	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.042	0.03679	2	No	16	0.03939	0.003998	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.052	0.0321	2	No	16	0.04216	0.008973	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-13	0.03368	0.02552	2	No	16	0.0296	0.006267	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.06131	0.05316	2	No	16	0.05724	0.006267	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.04004	0.0339	2	No	16	0.03697	0.004713	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.027	0.017	2	No	16	0.02143	0.004687	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-17	0.02176	0.01821	2	No	16	0.01999	0.002729	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.032	0.013	2	No	16	0.02096	0.008194	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-19	0.04262	0.03491	2	No	16	0.03876	0.005929	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03641	0.02674	2	No	16	0.03158	0.007429	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.09766	0.08992	2	No	16	0.09379	0.005947	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-22	0.09365	0.08261	2	No	16	0.08813	0.008485	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.0882	0.07287	2	No	16	0.08054	0.011178	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-6	0.09899	0.05454	2	No	16	0.07677	0.03416	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.3078	0.2569	2	No	16	0.2824	0.03913	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.2	0.17	2	No	16	0.1841	0.02205	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-9	0.06978	0.05595	2	No	16	0.06287	0.01063	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	16	0.00236	0.00056	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	16	0.002377	0.0004925	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00059	0.00035	0.004	No	16	0.0007962	0.0008477	18.75	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-18	0.0025	0.00033	0.004	No	16	0.001563	0.001098	56.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	16	0.00221	0.0007925	87.5	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0008151	0.0006414	0.004	No	16	0.0007283	0.0001335	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	16	0.002356	0.000575	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	16	0.002218	0.0007705	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	15	0.002214	0.0007599	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.0003	0.005	No	15	0.001493	0.001115	53.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-18	0.0025	0.0002	0.005	No	15	0.001739	0.001114	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	15	0.002357	0.0005525	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	15	0.002181	0.0008431	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	15	0.002359	0.0005448	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	15	0.002348	0.0005887	93.33	None	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	15	0.002354	0.0005655	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	16	0.002019	0.000075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	16	0.001981	0.000075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-14	0.0026	0.0016	0.1	No	16	0.001831	0.0004316	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03532	0.03223	0.1	No	16	0.03378	0.002373	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01155	0.009227	0.1	No	16	0.01043	0.001832	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	SGWC-17	0.006314	0.003767	0.1	No	16	0.005041	0.001958	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.009357	0.00702	0.1	No	16	0.008188	0.001796	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01609	0.01431	0.1	No	16	0.0152	0.001371	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	16	0.001944	0.0002828	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.0016	0.1	No	16	0.001894	0.0002407	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0024	0.0015	0.1	No	16	0.001813	0.0004334	68.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0024	0.0013	0.1	No	16	0.00185	0.0004033	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0013	0.1	No	16	0.001825	0.0004879	50	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-10</b>	<b>0.03322</b>	<b>0.02069</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.02696</b>	<b>0.009627</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>SGWC-11</b>	<b>0.03018</b>	<b>0.02357</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.02688</b>	<b>0.005085</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-12	0.004258	0.003054	0.02	No	16	0.003686	0.0009908	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.008664	0.003761	0.02	No	16	0.006213	0.003768	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01255	0.007132	0.02	No	16	0.009841	0.004163	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>SGWC-15</b>	<b>0.2797</b>	<b>0.2606</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.2701</b>	<b>0.01468</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-16	0.004076	0.00329	0.02	No	16	0.003683	0.0006036	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.0025	0.00041	0.02	No	16	0.001034	0.000886	25	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-18</b>	<b>0.1665</b>	<b>0.1181</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.1423</b>	<b>0.03716</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-19	0.0025	0.00015	0.02	No	16	0.001492	0.001063	50	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-20</b>	<b>0.2313</b>	<b>0.1689</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.2001</b>	<b>0.04797</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-21	0.0025	0.00014	0.02	No	16	0.001906	0.001063	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003758	0.00211	0.02	No	16	0.003006	0.001368	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	16	0.002352	0.0005925	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.002537	0.000925	0.02	No	16	0.002013	0.001219	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	SGWC-7	0.01199	0.005668	0.02	No	16	0.008831	0.004861	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.00265	0.00032	0.02	No	16	0.001871	0.001012	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01399	0.007868	0.02	No	16	0.01093	0.004708	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.496	0.0159	5	No	16	0.323	0.3868	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.5635	0.1801	5	No	16	0.3718	0.2946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4647	0.1447	5	No	16	0.3047	0.246	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4462	0.1087	5	No	16	0.2775	0.2594	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.4147	0.07217	5	No	16	0.2434	0.2633	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.478	0.2068	5	No	16	0.3424	0.2084	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.4004	0.117	5	No	16	0.2587	0.2178	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.4117	0.1464	5	No	16	0.2791	0.2039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.4168	0.1967	5	No	16	0.3067	0.1691	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.3244	0.07902	5	No	16	0.2017	0.1886	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.6175	0.2923	5	No	16	0.4549	0.2499	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.4553	0.1687	5	No	16	0.312	0.2202	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.4219	0.1322	5	No	16	0.3019	0.2581	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6481	0.3742	5	No	16	0.5112	0.2105	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.4151	0.1073	5	No	16	0.2612	0.2365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.5146	0.2898	5	No	16	0.4022	0.1728	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.585	2.017	5	No	16	2.301	0.4365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.4077	0.1099	5	No	16	0.2588	0.2288	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-10	0.1	0.031	4	No	17	0.09118	0.025	88.24	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	17	0.09241	0.01883	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.1079	0.06648	4	No	17	0.09588	0.03159	23.53	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.15	0.045	4	No	17	0.08847	0.03118	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.031	4	No	17	0.07976	0.03244	70.59	Kaplan-Meier	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	17	0.1417	0.06142	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.09	4	No	17	0.08988	0.02694	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.1	0.047	4	No	17	0.08559	0.03309	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-18	0.18	0.091	4	No	17	0.09349	0.03253	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.18	0.057	4	No	17	0.09704	0.03136	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2758	0.1876	4	No	17	0.2346	0.0754	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09982	0.06935	4	No	17	0.09465	0.02244	41.18	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.1	4	No	17	0.08806	0.02669	76.47	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-23	0.1	0.044	4	No	17	0.08024	0.02659	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-6	0.14	0.092	4	No	17	0.1192	0.03685	17.65	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-7	0.2256	0.1809	4	No	17	0.2032	0.03566	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.477	0.3632	4	No	17	0.4201	0.09082	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.1	0.074	4	No	17	0.08912	0.02156	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.001	No	16	0.0008919	0.0002955	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.001	No	16	0.0009619	0.0001525	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.001	No	16	0.0009263	0.0002212	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.001	No	16	0.0009519	0.0001925	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.001	No	16	0.0009456	0.0002175	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00027	0.001	No	16	0.0007038	0.0003528	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-21	0.001	0.00009	0.001	No	16	0.0009431	0.0002275	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00018	0.001	No	16	0.0009488	0.000205	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.001	No	16	0.0009431	0.0002275	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.001	No	16	0.00095	0.0002	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.001	No	16	0.0009906	0.0000375	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00029	0.001	No	16	0.0009556	0.0001775	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.005	No	16	0.003987	0.001431	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0011	0.005	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.005	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0011	0.005	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.003	0.005	No	16	0.004125	0.0009815	50	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.005	No	16	0.004781	0.000875	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.005	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004682	0.003727	0.005	No	16	0.004662	0.0006908	31.25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.005	No	16	0.004644	0.0009736	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004934	0.003919	0.005	No	15	0.004427	0.0007488	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0027	0.005	No	16	0.004356	0.001249	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.005	No	16	0.0045	0.001151	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.005	No	16	0.004162	0.0008884	37.5	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-7	0.005447	0.0041	0.005	No	15	0.004773	0.0009939	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.002	0.005	No	16	0.004031	0.001497	68.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	16	0.0001956	0.0000175	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	16	0.0001933	0.00002675	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	16	0.0001818	0.00003952	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00011	0.002	No	16	0.0001504	0.00004629	37.5	None	No	0.01	NP (normality)
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	16	0.0001922	0.000031	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00011	0.002	No	16	0.0001887	0.00003074	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.0001862	0.00009871	0.002	No	16	0.0001754	0.00004905	31.25	Kaplan-Meier	x^2	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.000082	0.002	No	16	0.0001847	0.00004187	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	16	0.0001937	0.00002525	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	16	0.0001857	0.00004896	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

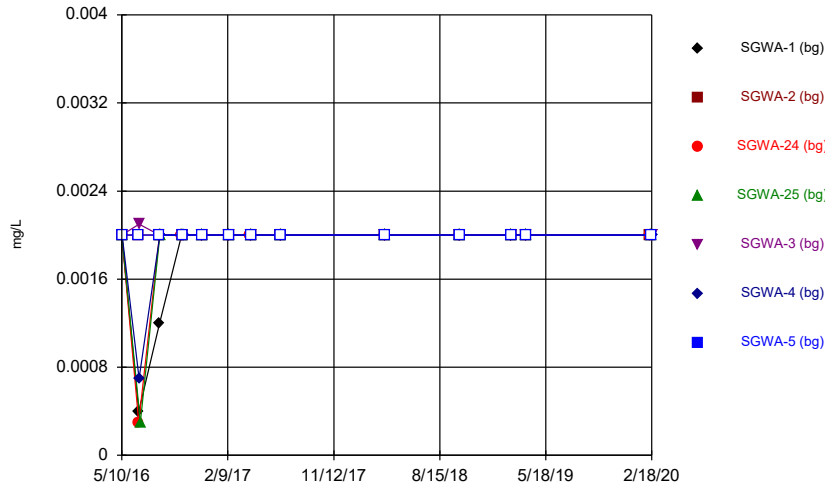
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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	16	0.0001922	0.000031	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.015	No	15	0.01315	0.004873	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.015	No	15	0.01325	0.004626	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.015	No	15	0.01311	0.004981	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.015	0.0013	0.015	No	15	0.005502	0.005978	26.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.015	No	15	0.01405	0.003666	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00075	0.015	No	15	0.007569	0.007203	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No	16	0.004716	0.001135	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No	16	0.004707	0.001172	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No	16	0.004434	0.001549	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No	16	0.004469	0.001452	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.003479	0.0008276	0.05	No	16	0.003881	0.002926	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	SGWC-16	0.005	0.0012	0.05	No	16	0.003596	0.001896	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No	16	0.004135	0.001861	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.01429	0.004705	0.05	No	16	0.01029	0.008488	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00096	0.05	No	16	0.004193	0.001737	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.0053	0.00066	0.05	No	16	0.003647	0.001995	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00033	0.05	No	16	0.004112	0.001908	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No	16	0.004139	0.001851	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No	16	0.004709	0.001165	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No	16	0.0009281	0.0002295	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No	16	0.0009475	0.00021	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No	16	0.0009588	0.000165	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00018	0.002	No	16	0.000955	0.0002082	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.000095	0.002	No	16	0.0004739	0.0004315	37.5	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-18	0.00029	0.00012	0.002	No	16	0.0002503	0.0002405	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00021	0.00014	0.002	No	16	0.0002269	0.000213	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No	16	0.0009231	0.0002135	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00022	0.002	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No	16	0.0008888	0.0002682	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.00027	0.002	No	16	0.0009544	0.0001825	93.75	None	No	0.01	NP (NDs)



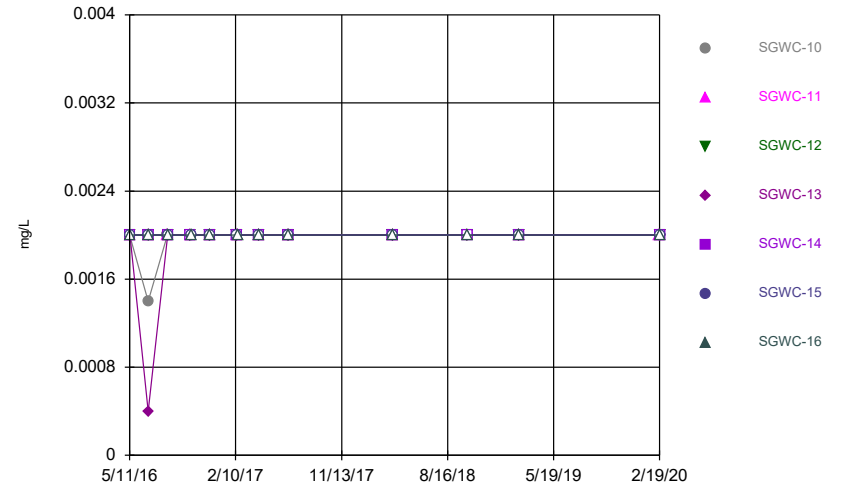
FIGURE A.

Time Series



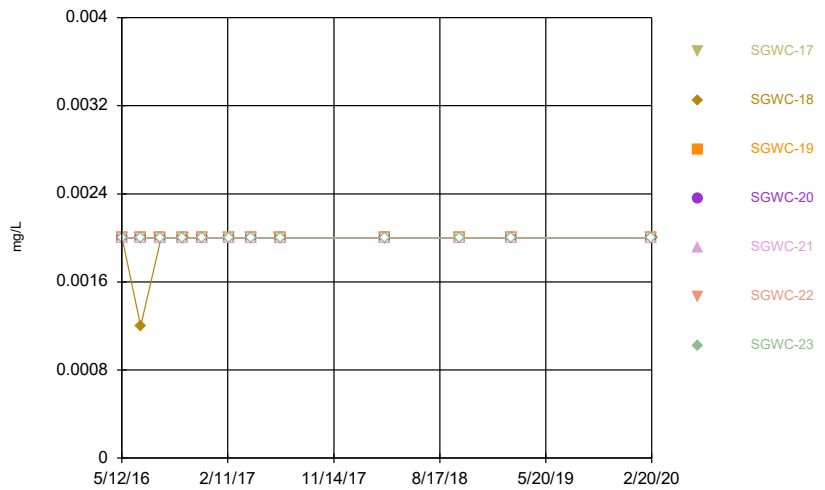
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Time Series



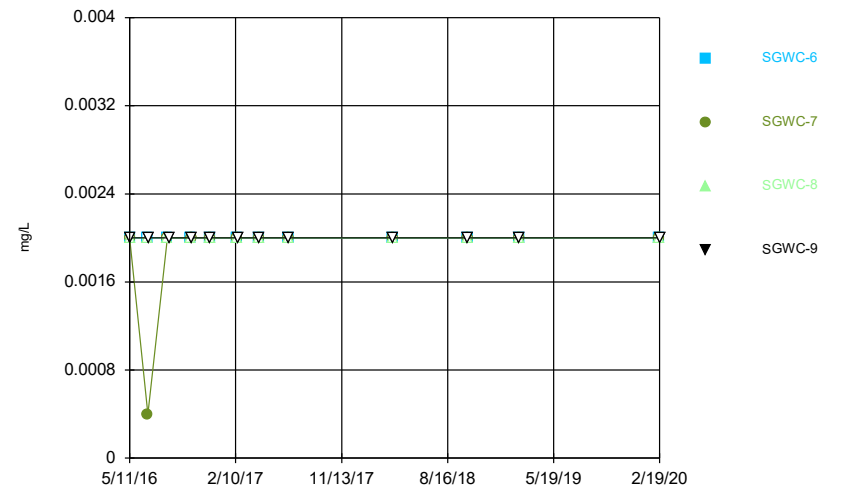
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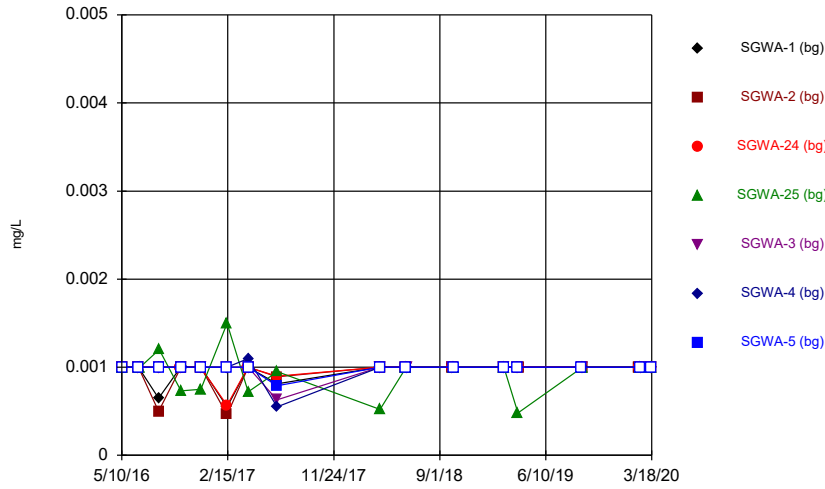
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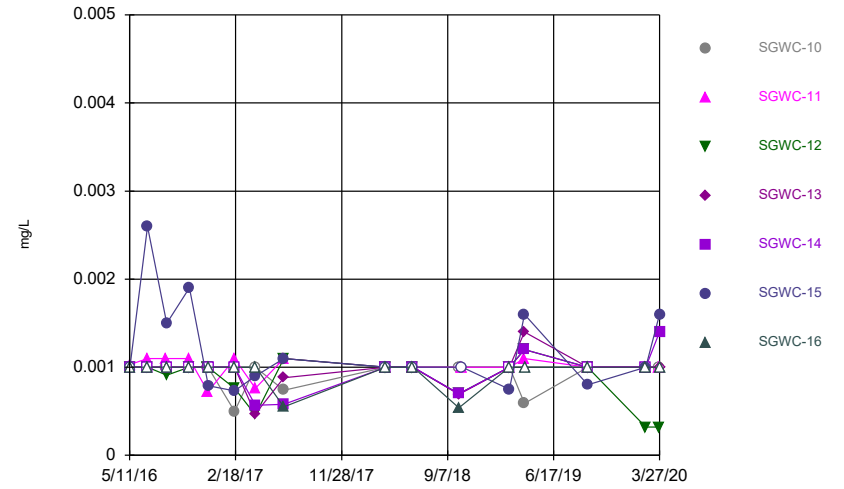
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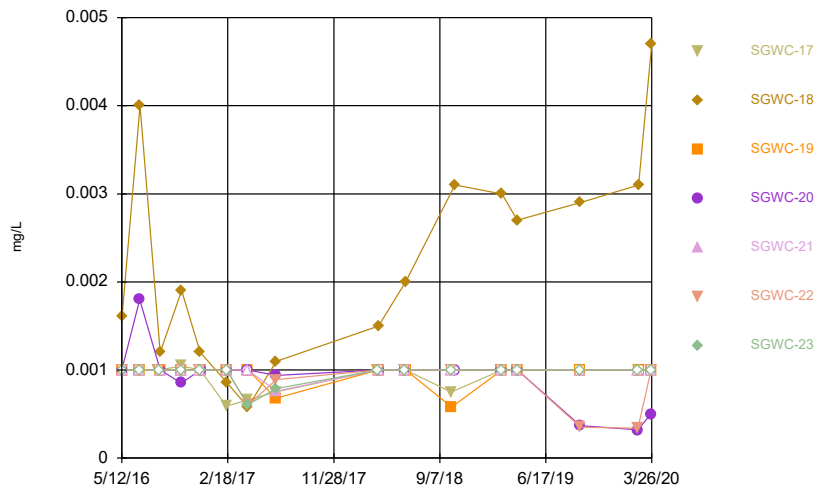
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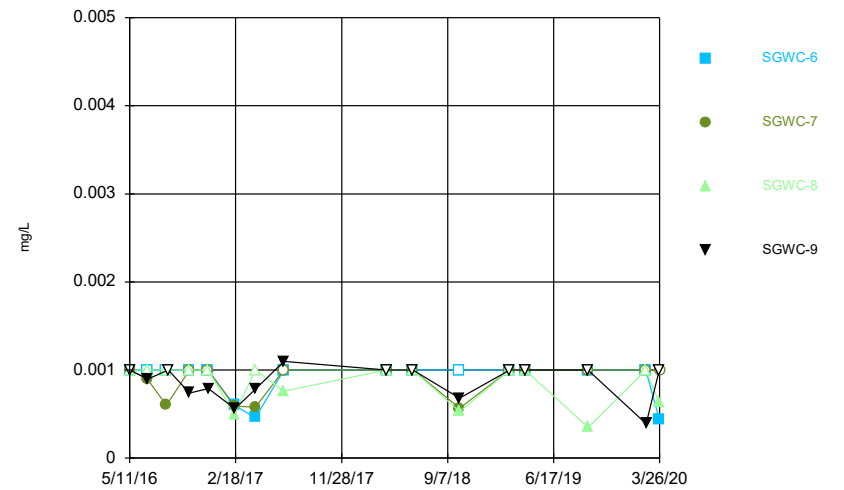
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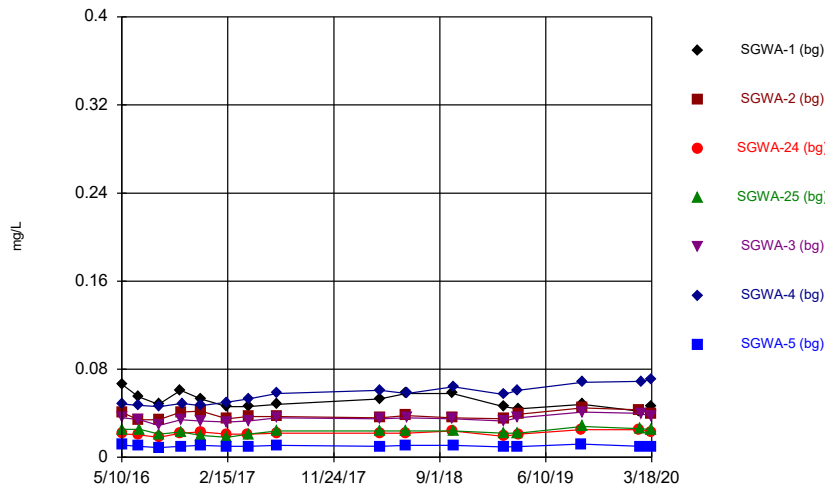
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Time Series



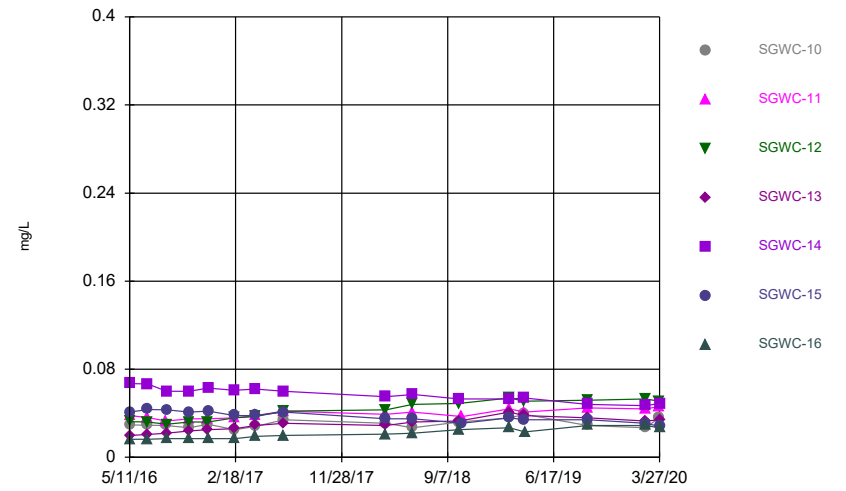
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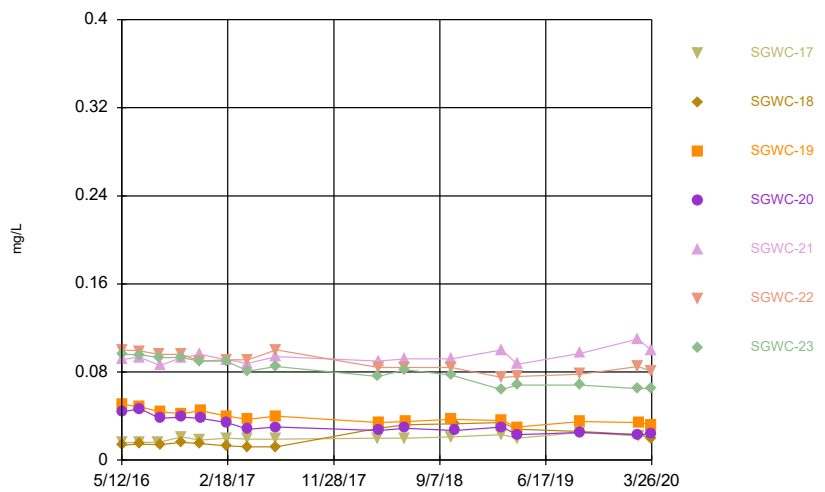
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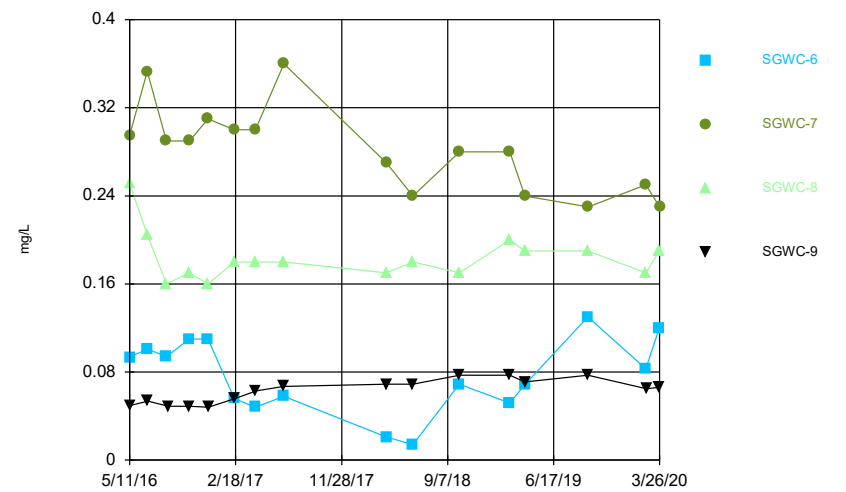
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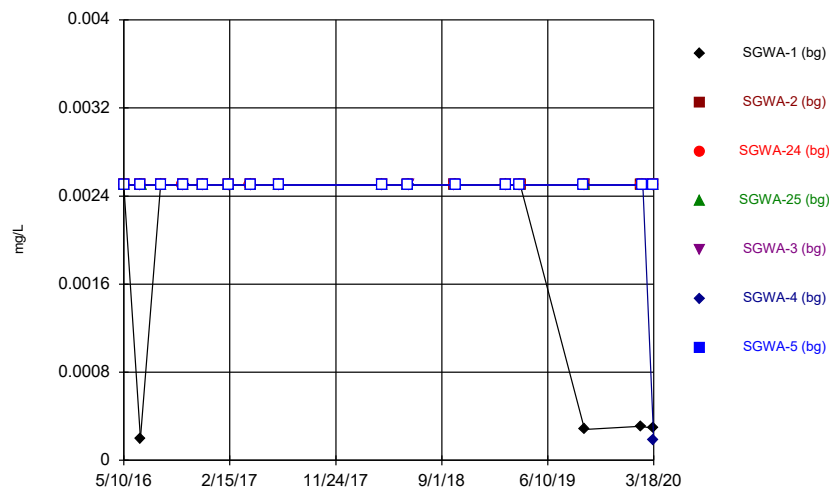
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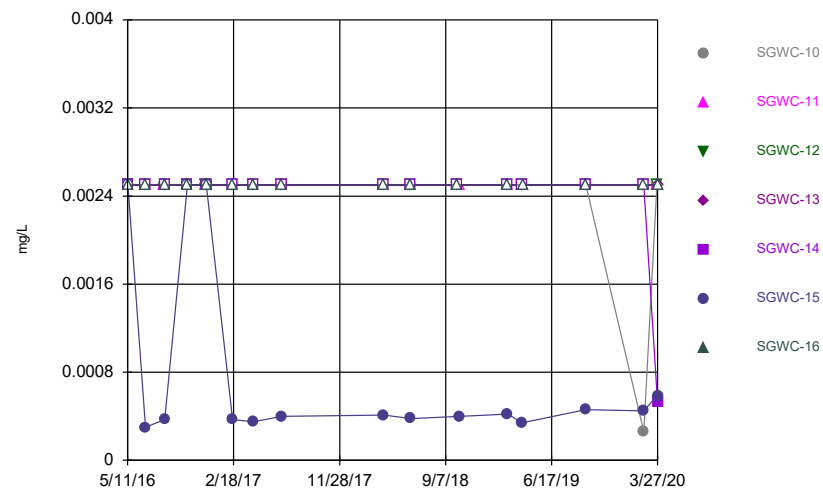
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### Time Series



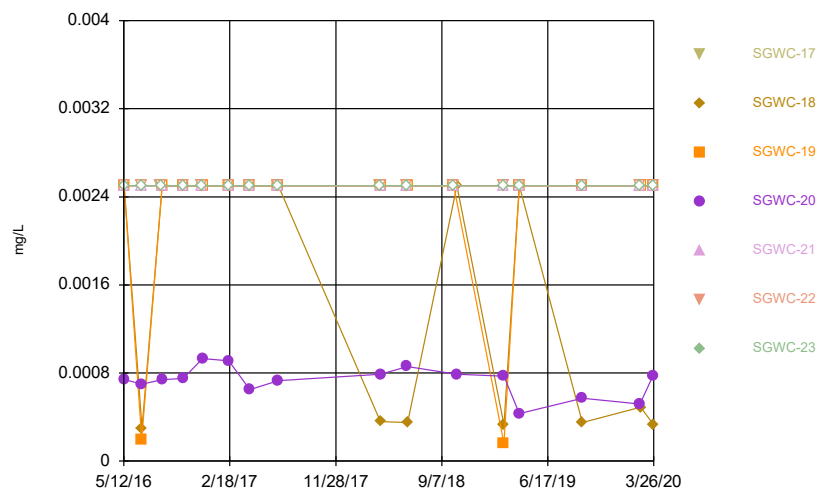
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### Time Series



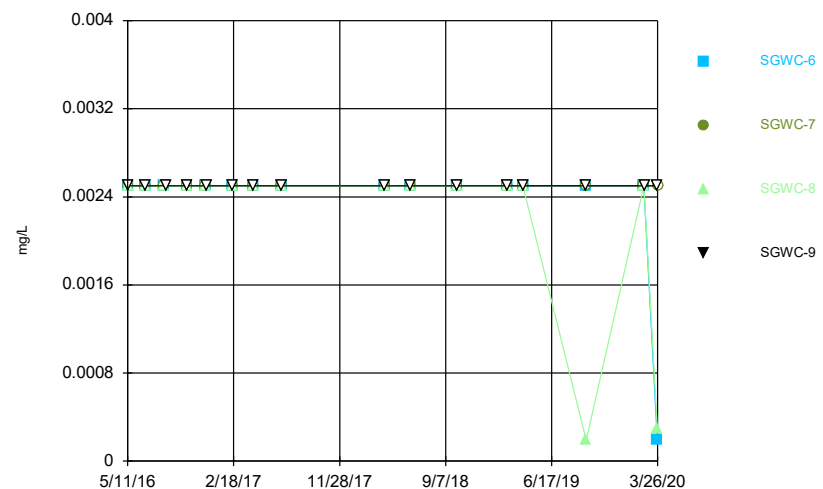
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### Time Series



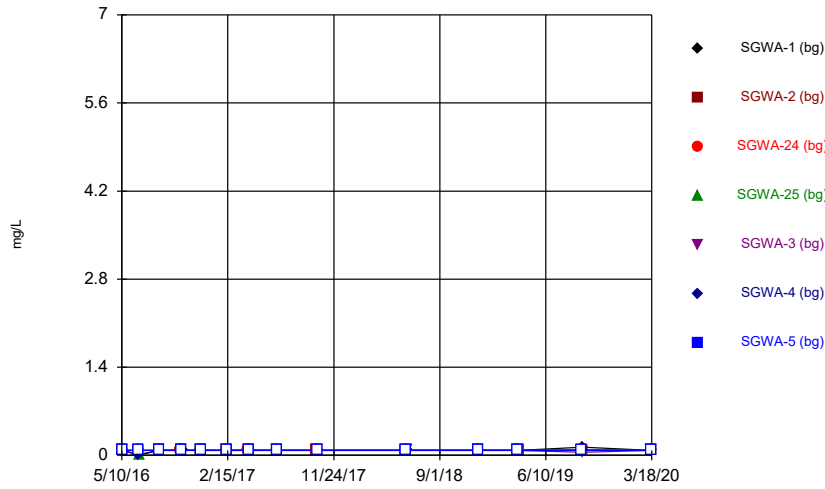
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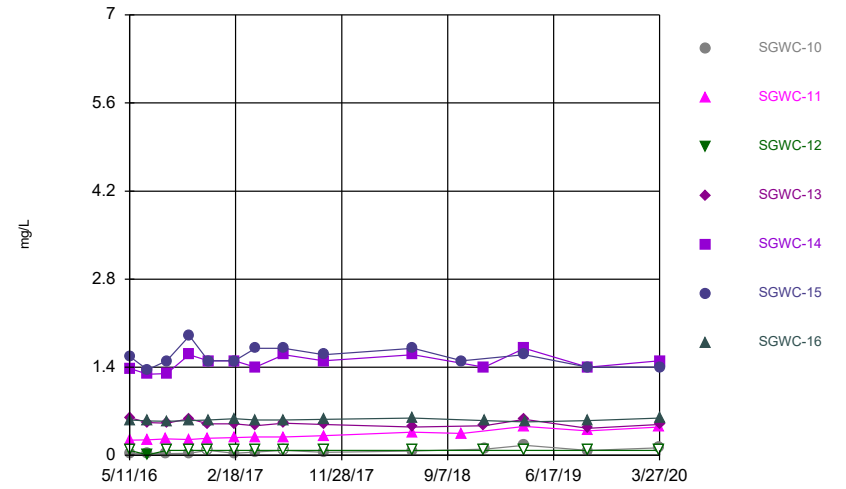
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Time Series



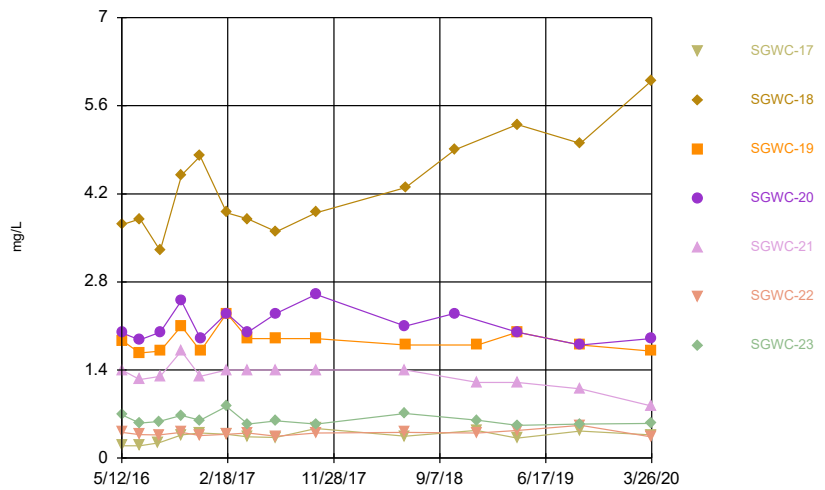
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Time Series



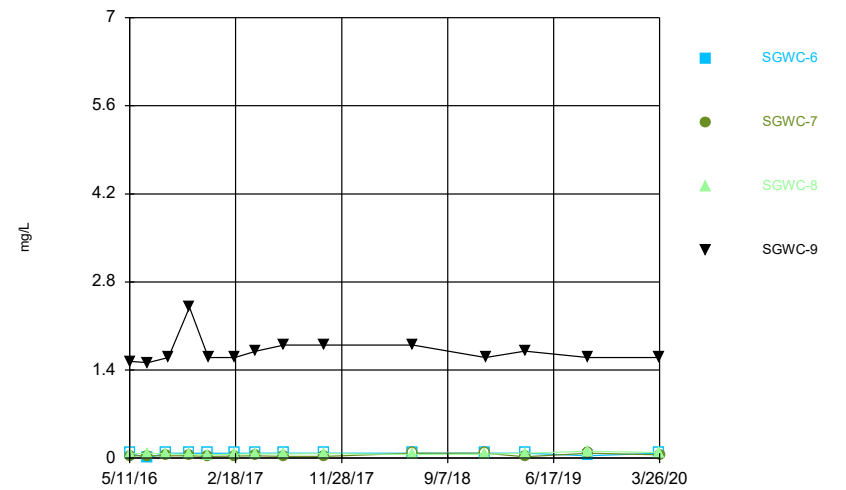
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Time Series



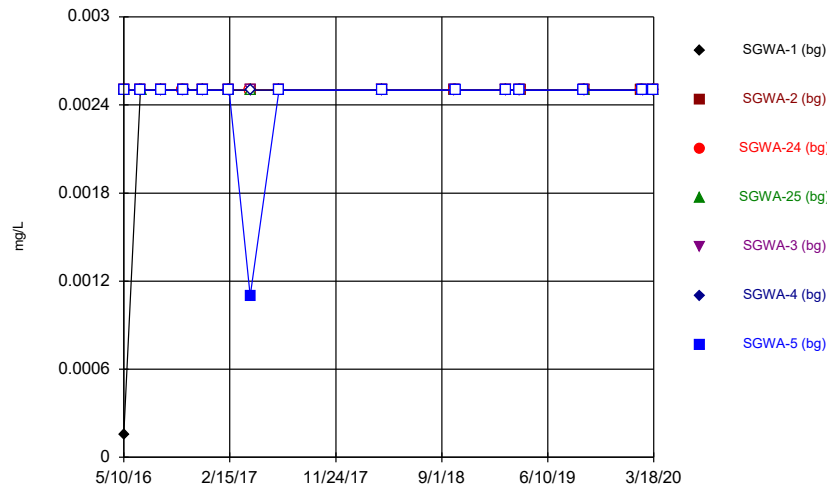
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Time Series



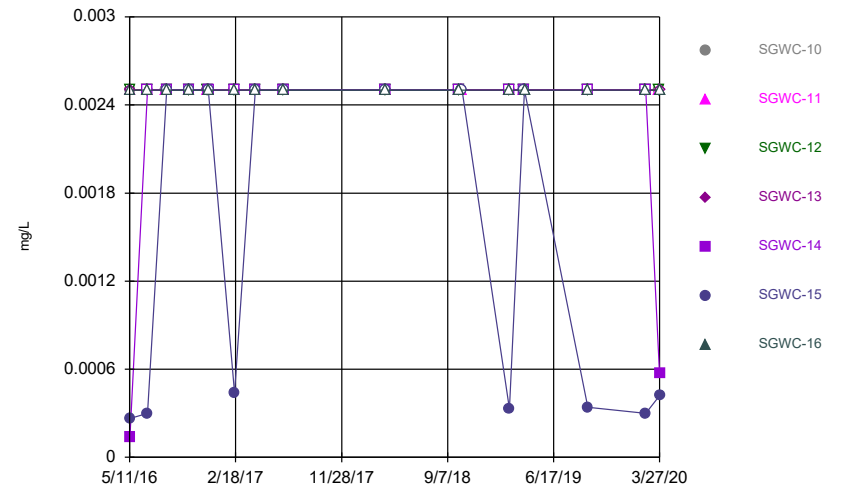
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Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



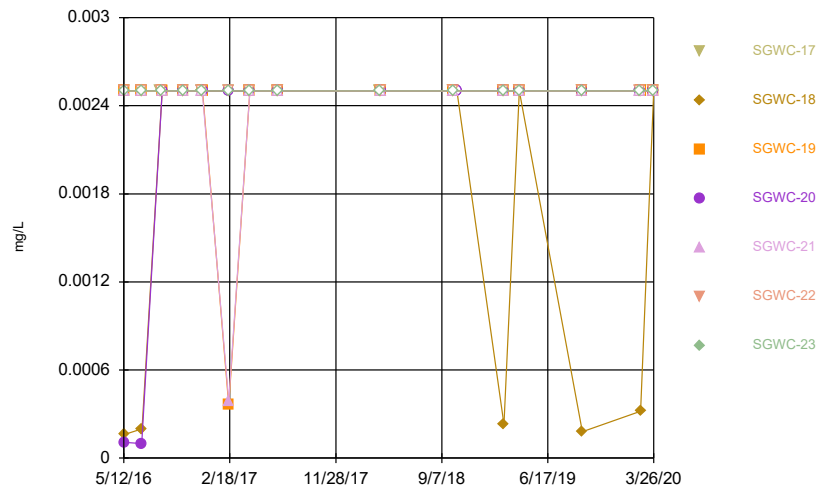
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Time Series



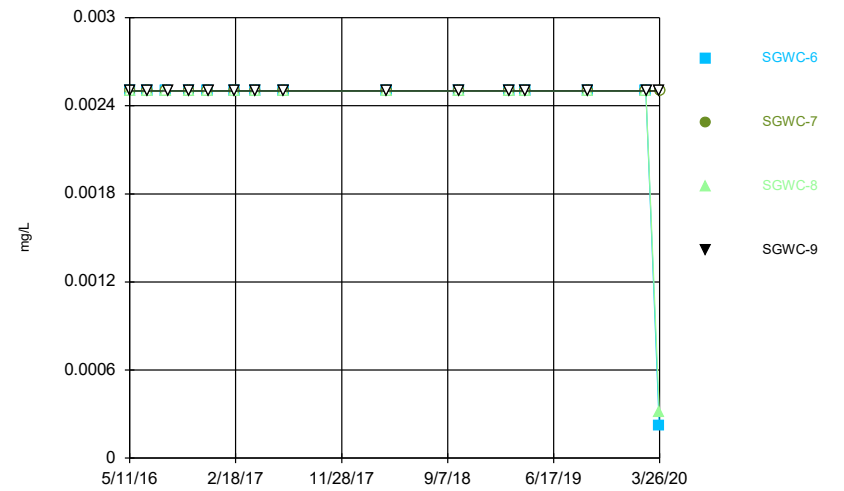
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Time Series



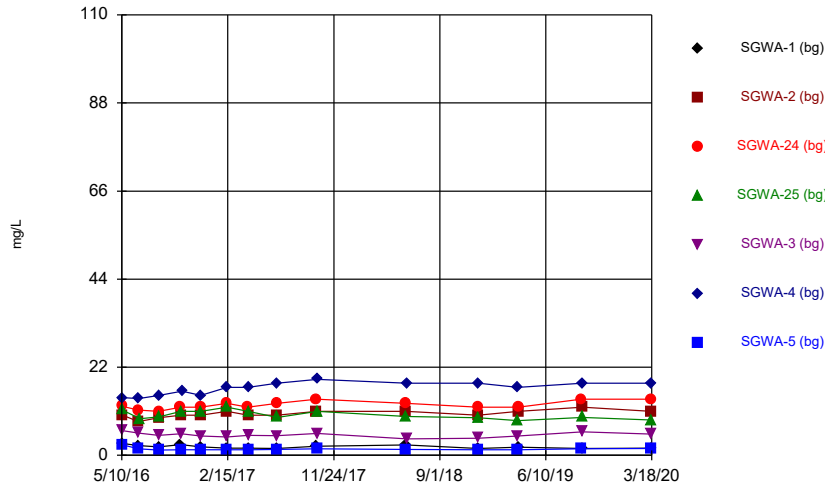
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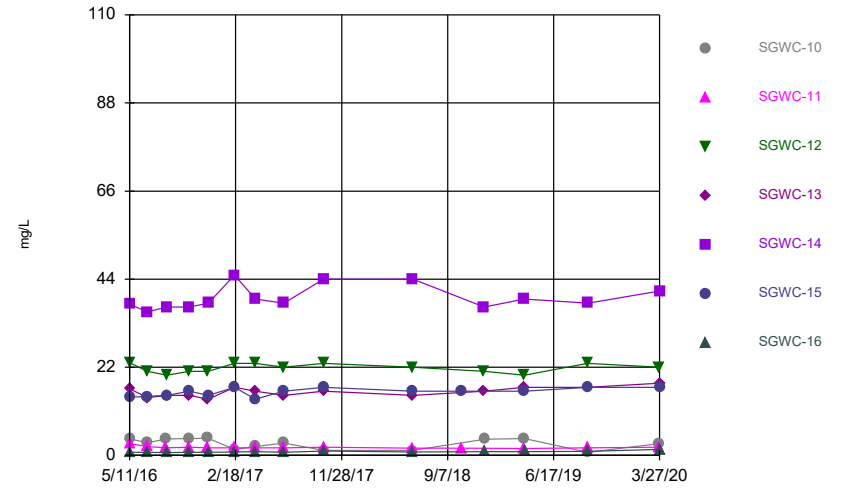
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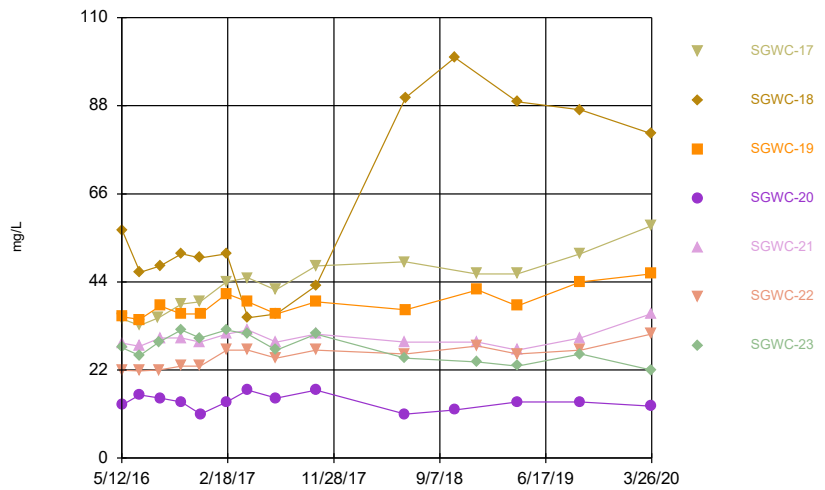
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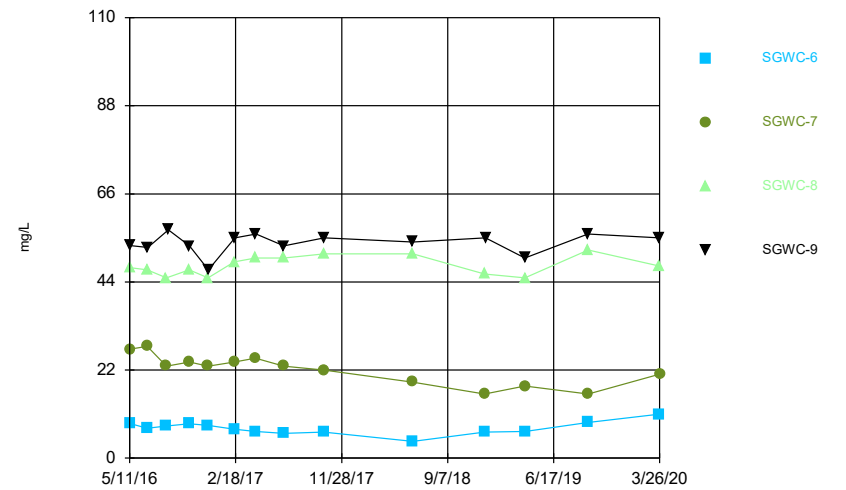
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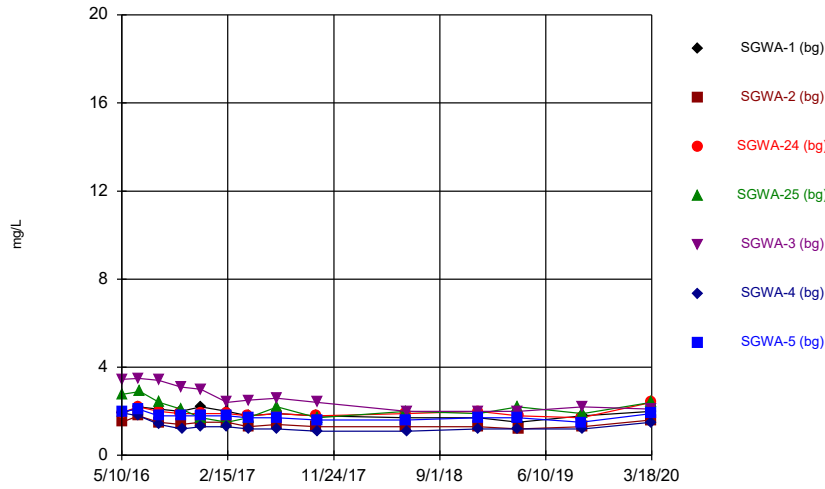
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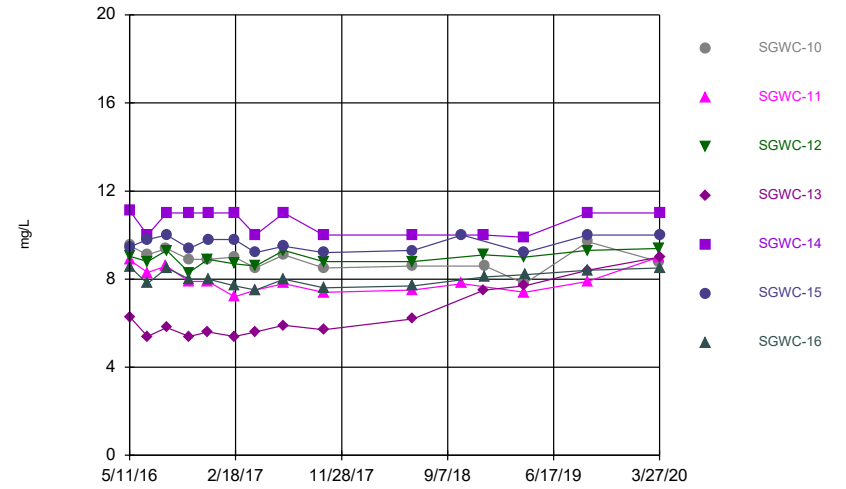


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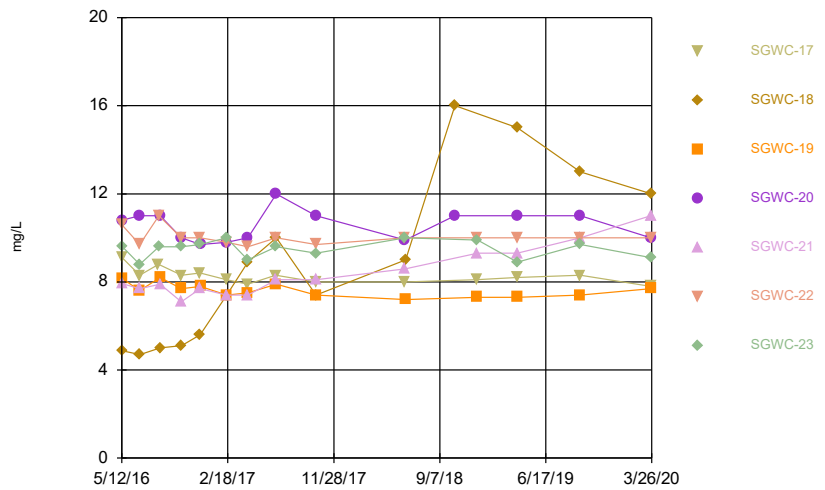
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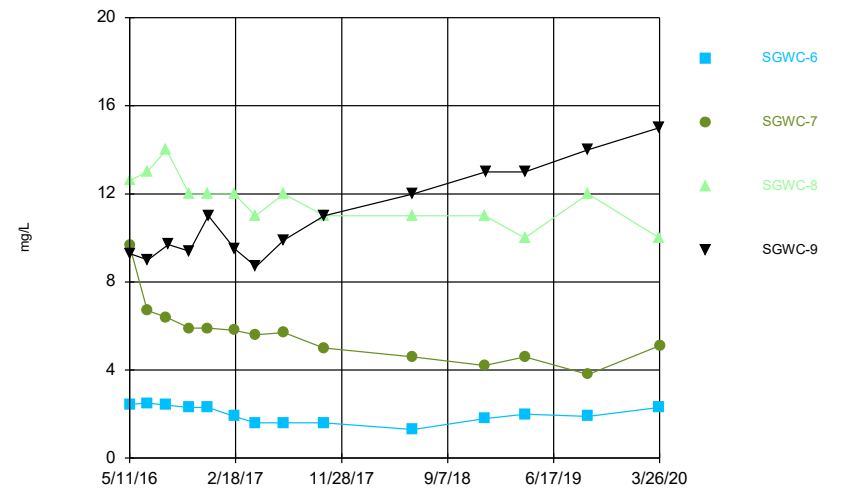
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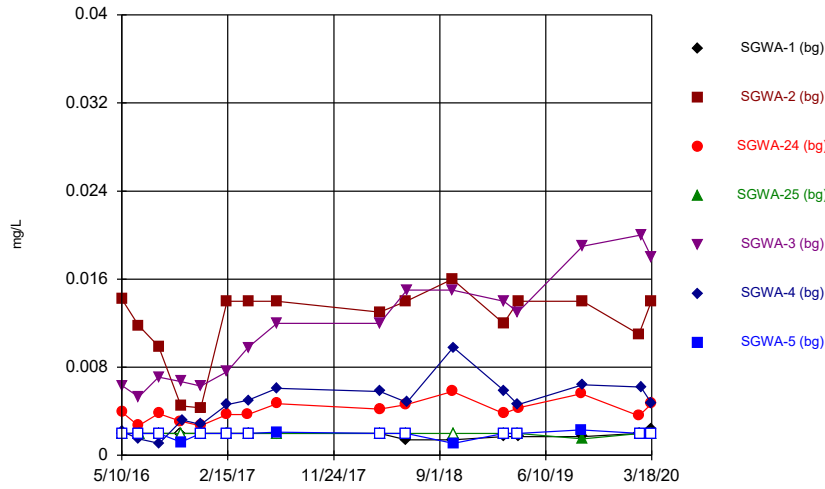
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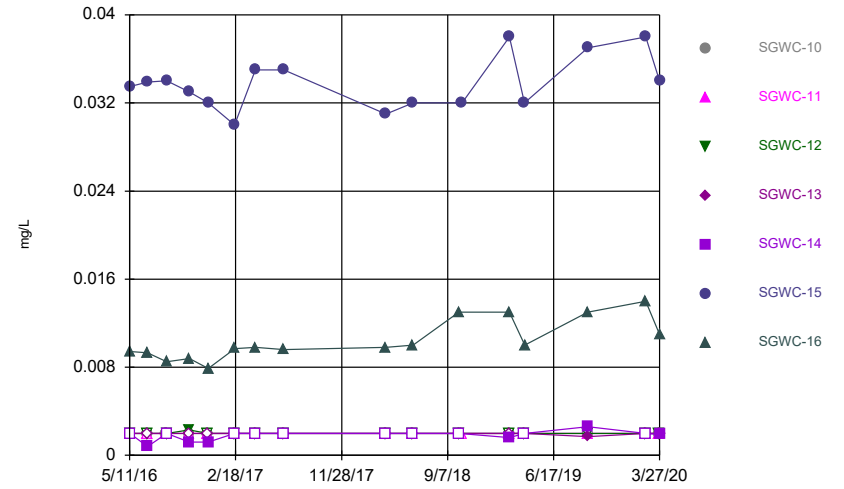
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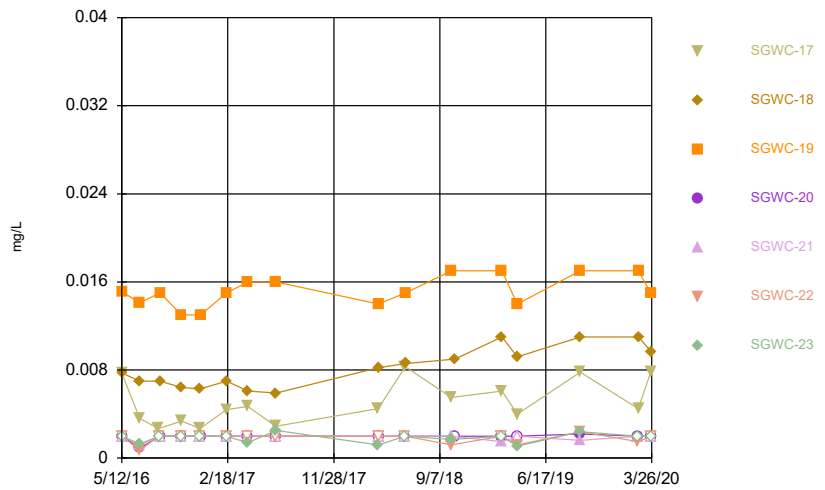
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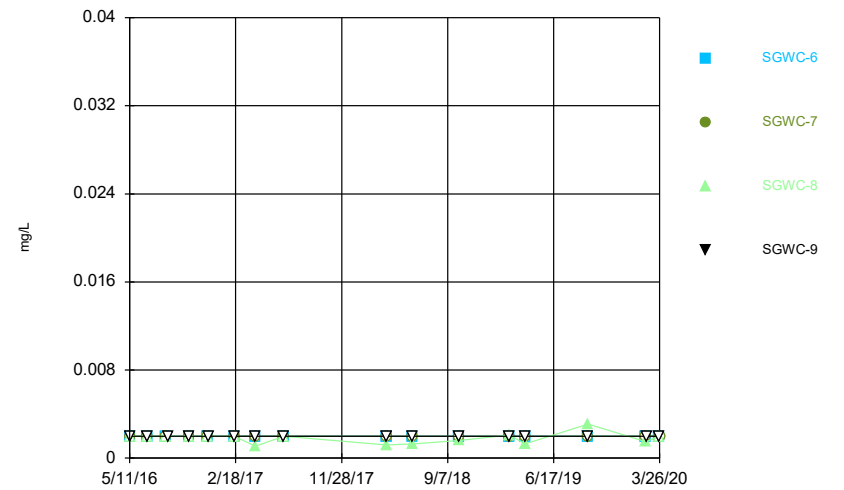
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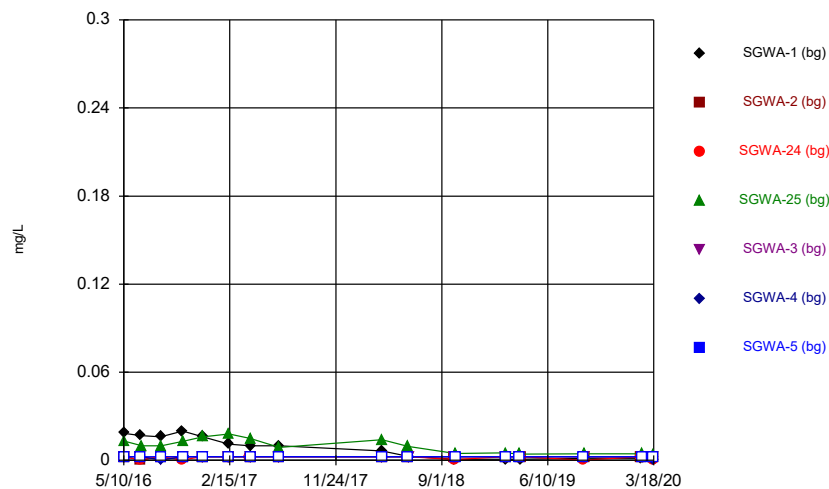
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Time Series



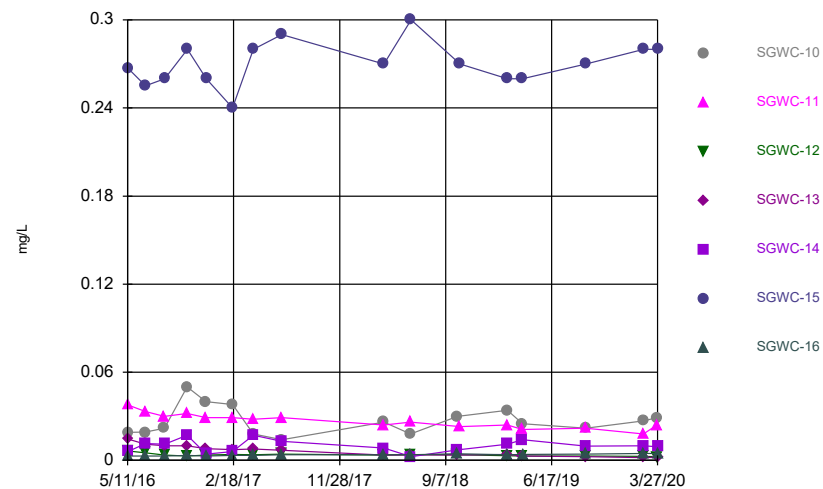
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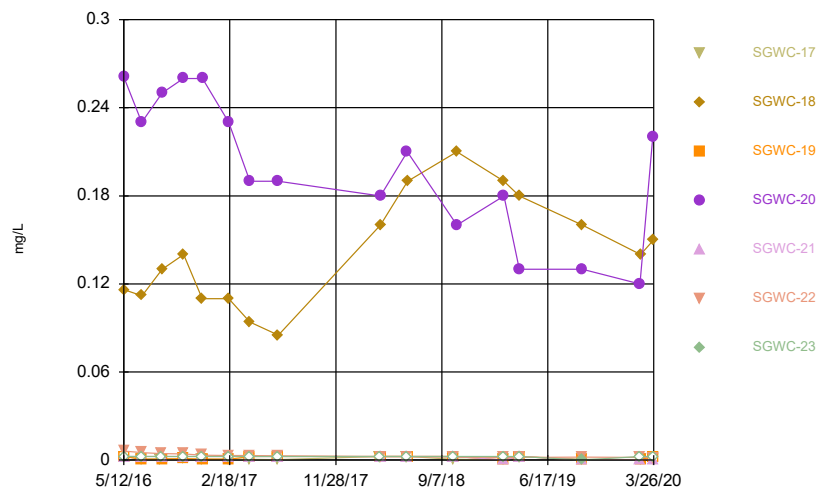
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### Time Series



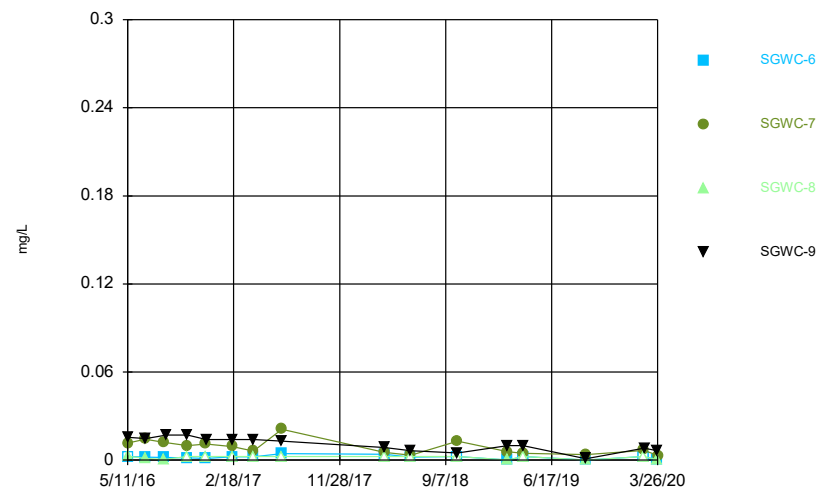
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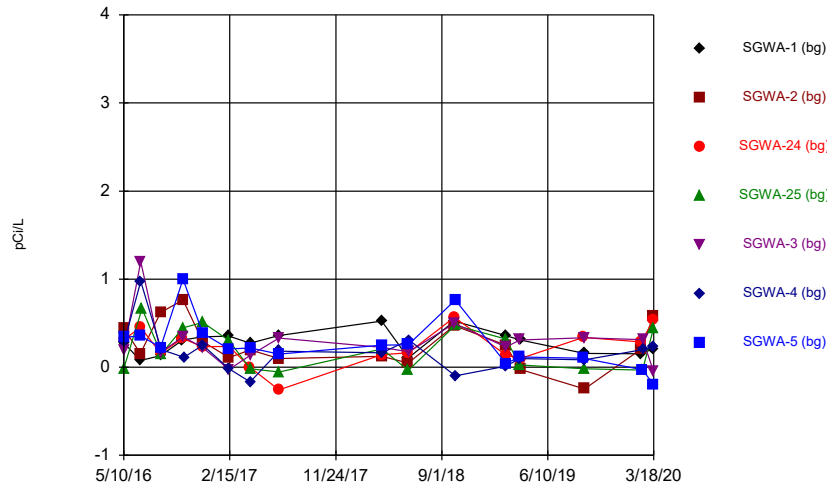
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### Time Series



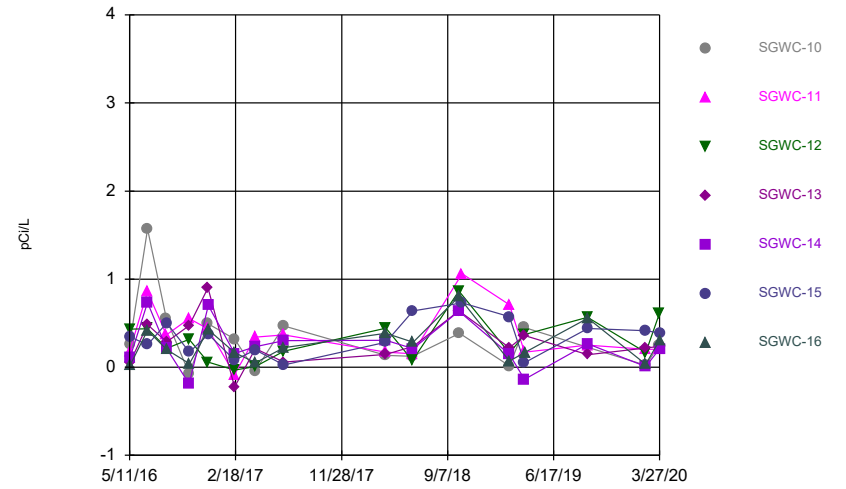
Constituent: Cobalt Analysis Run 6/16/2020 2:47 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



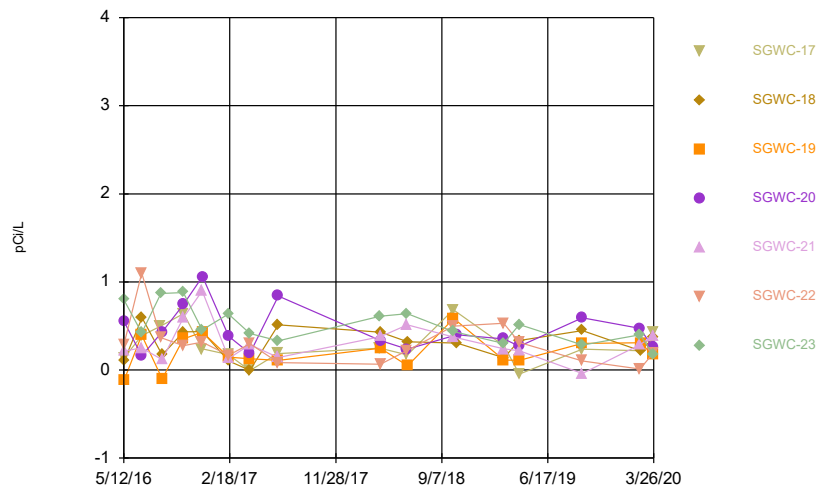
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:47 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



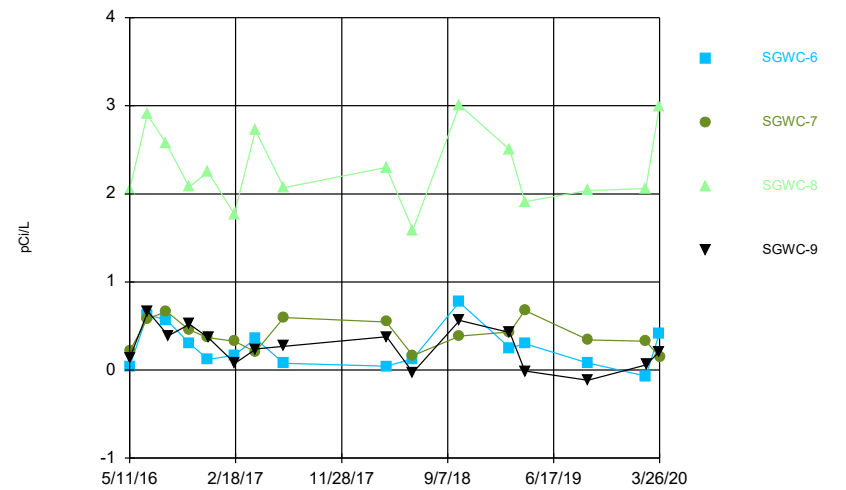
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:47 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



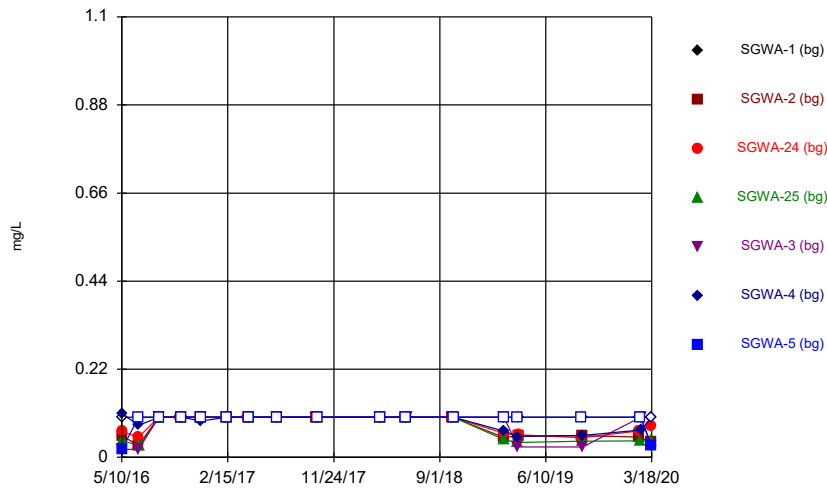
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:47 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



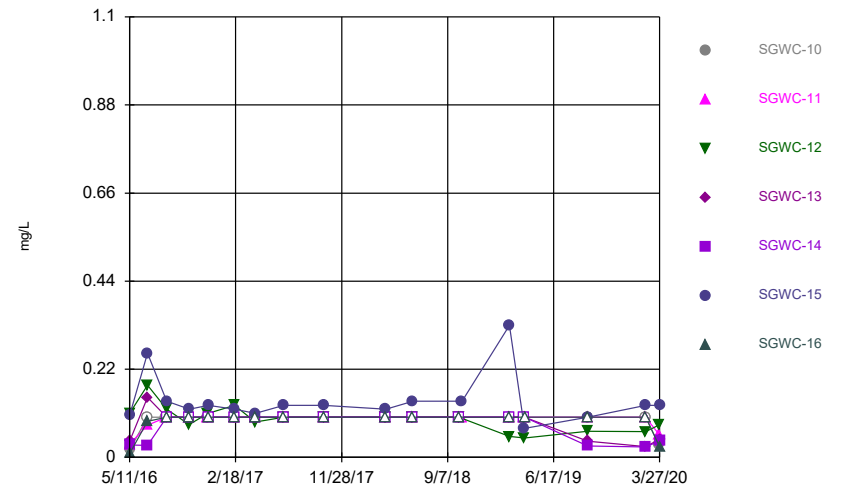
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:47 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



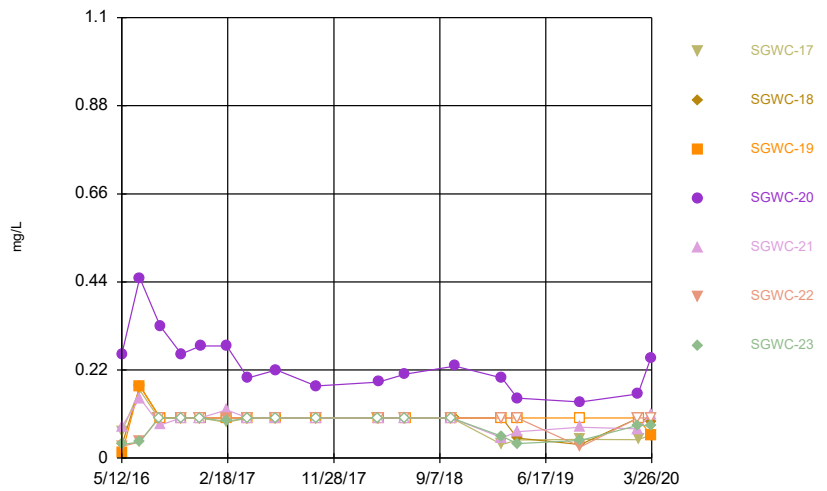
Constituent: Fluoride, total Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



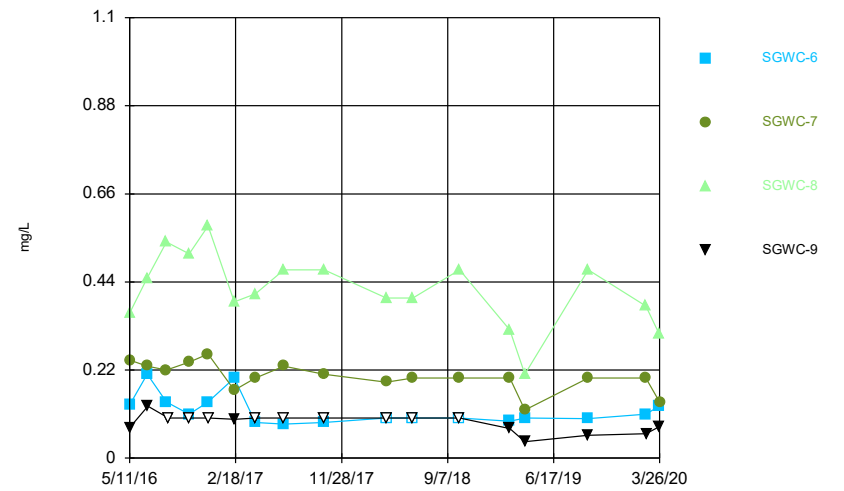
Constituent: Fluoride, total Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



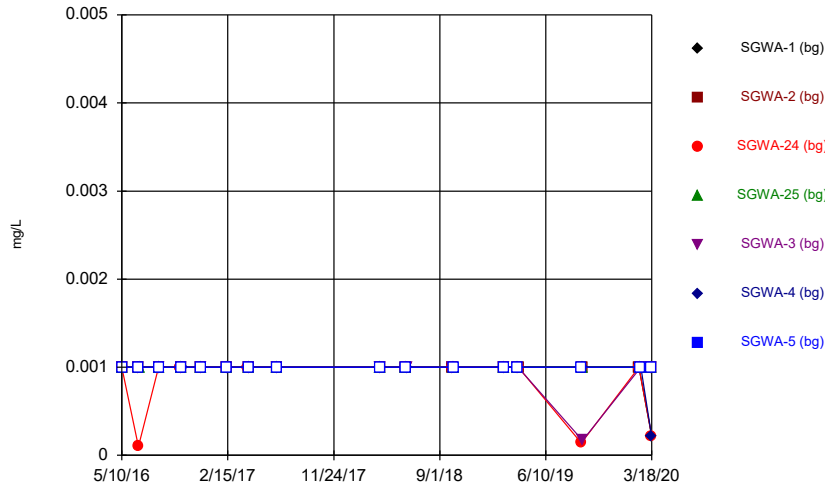
Constituent: Fluoride, total Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



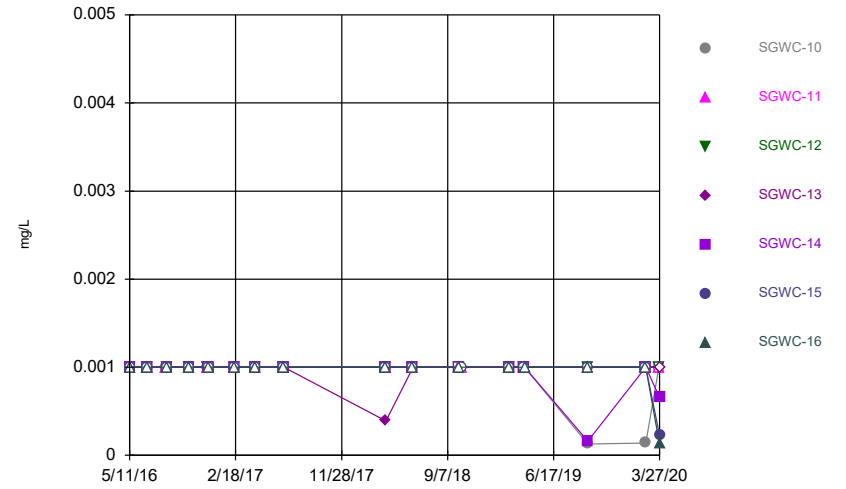
Constituent: Fluoride, total Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



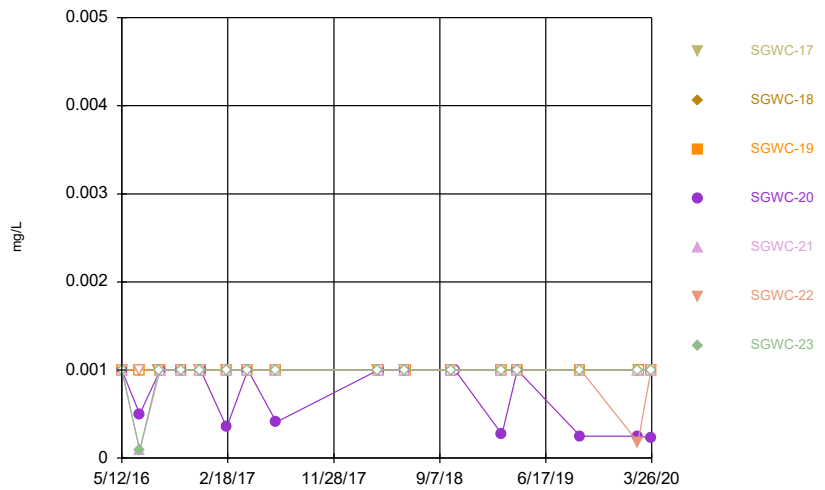
Constituent: Lead Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



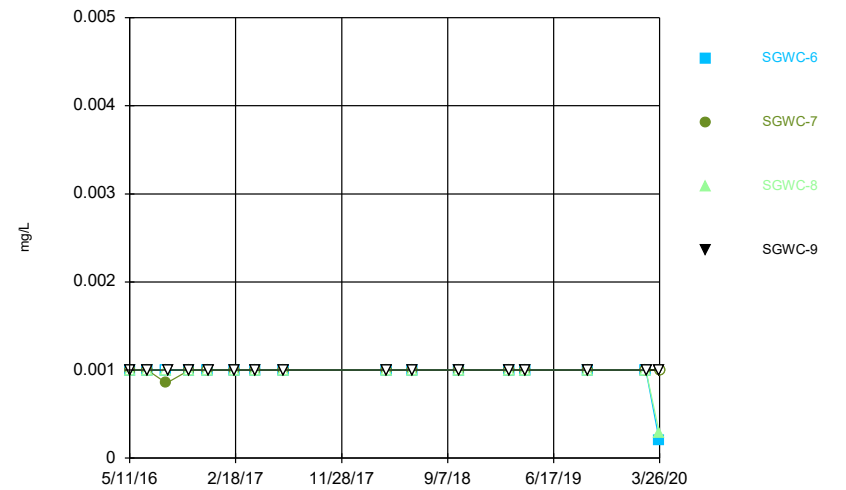
Constituent: Lead Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



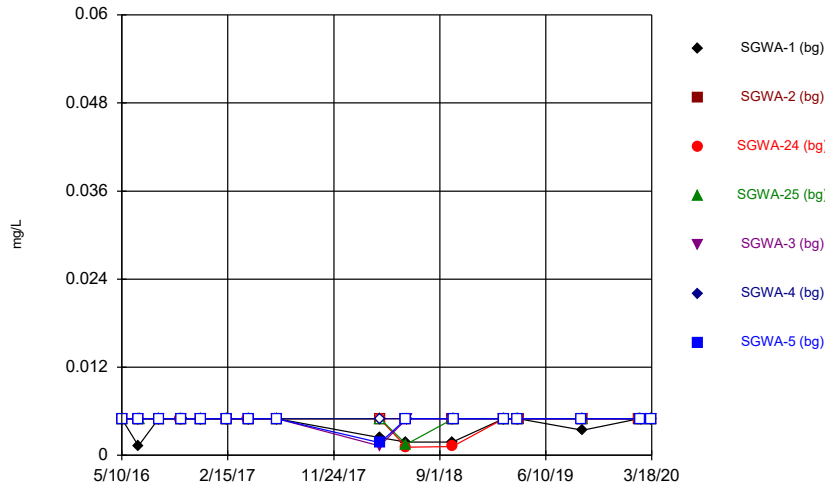
Constituent: Lead Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



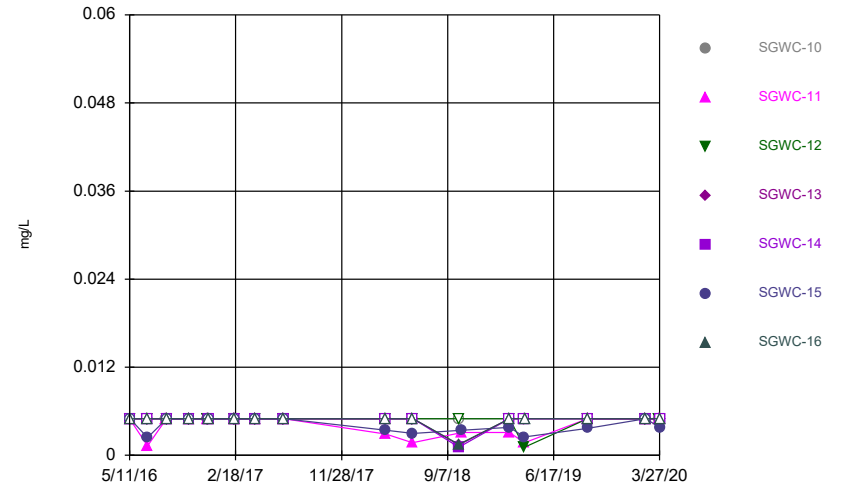
Constituent: Lead Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



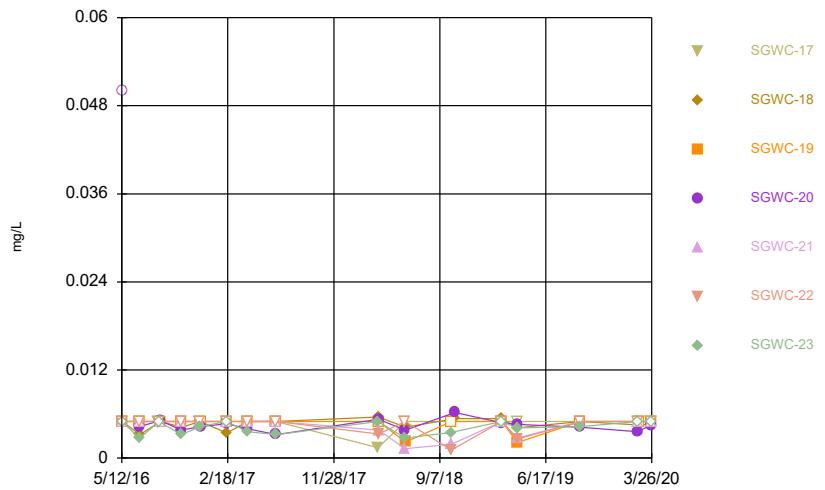
Constituent: Lithium Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



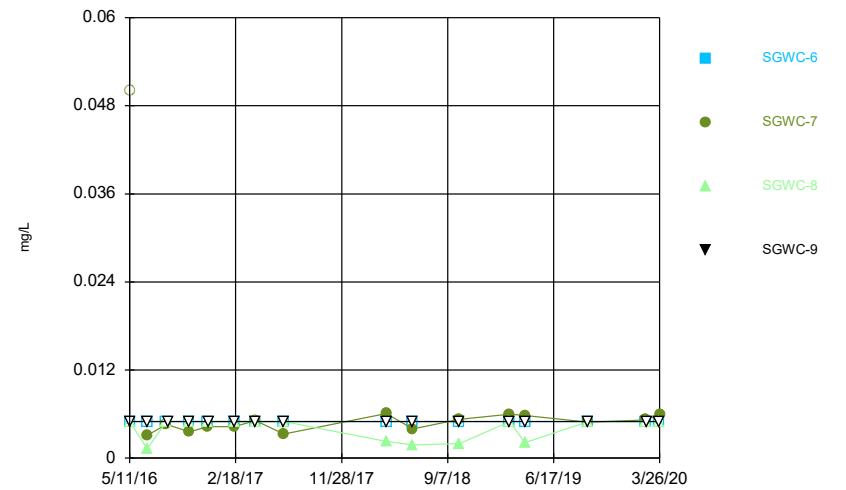
Constituent: Lithium Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



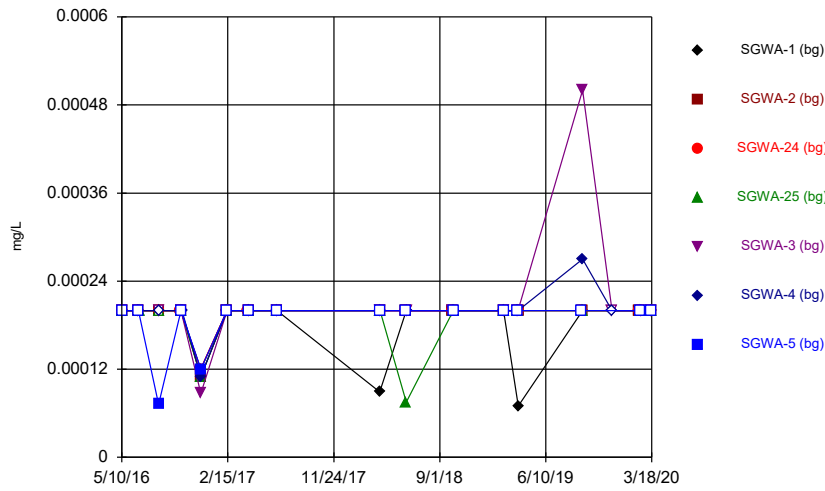
Constituent: Lithium Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



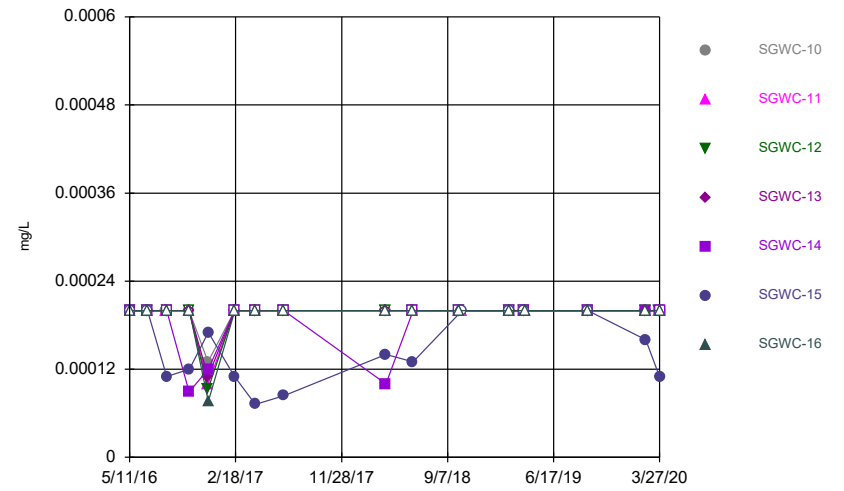
Constituent: Lithium Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



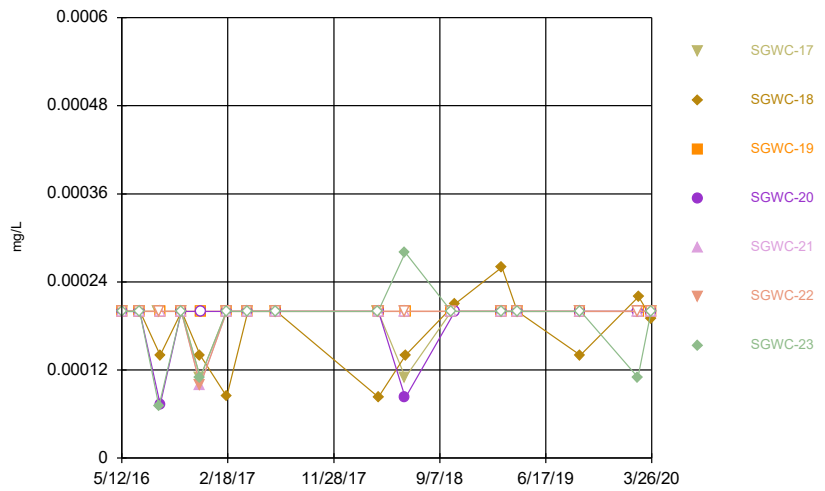
Constituent: Mercury Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



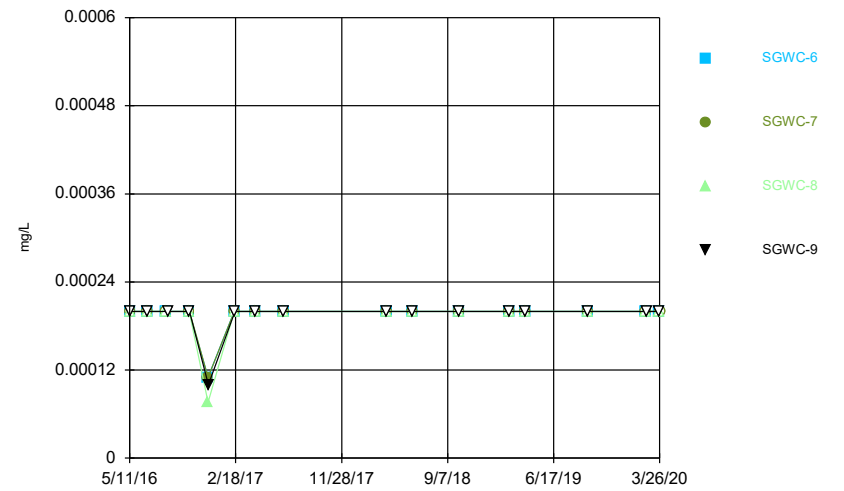
Constituent: Mercury Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



Constituent: Mercury Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

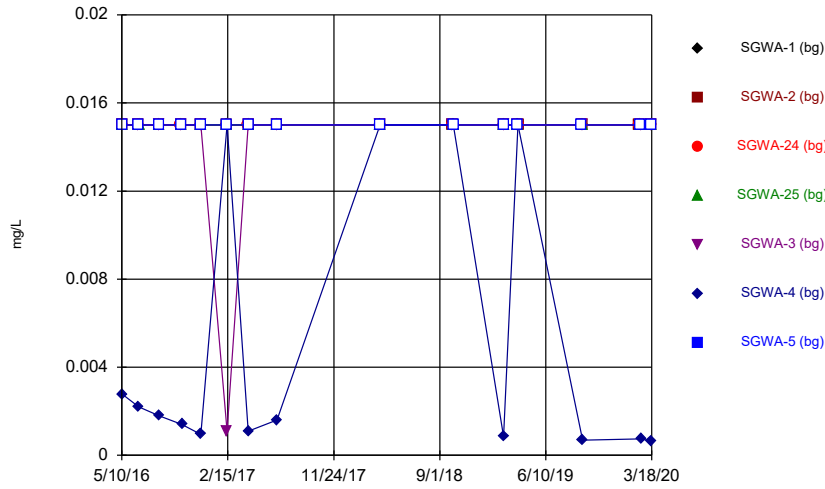
Time Series



Constituent: Mercury Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

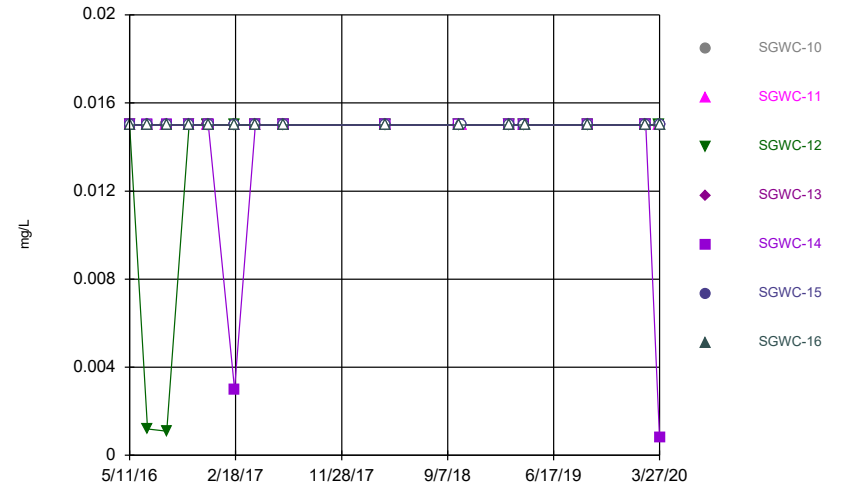


Time Series



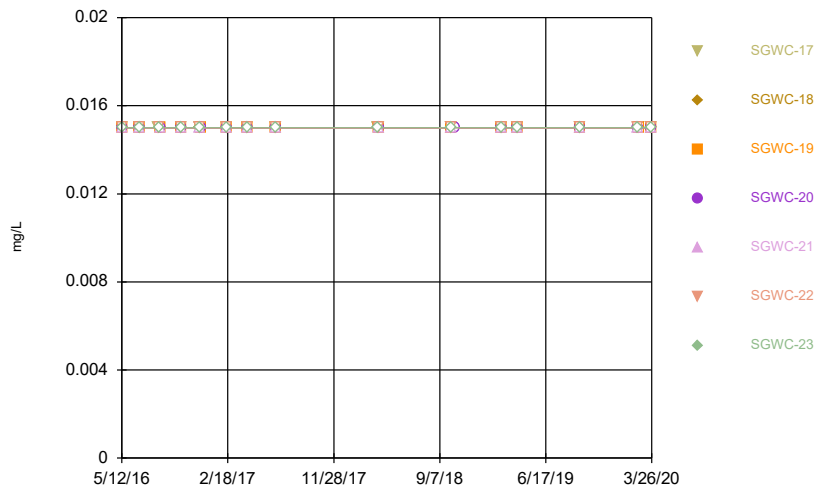
Constituent: Molybdenum Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



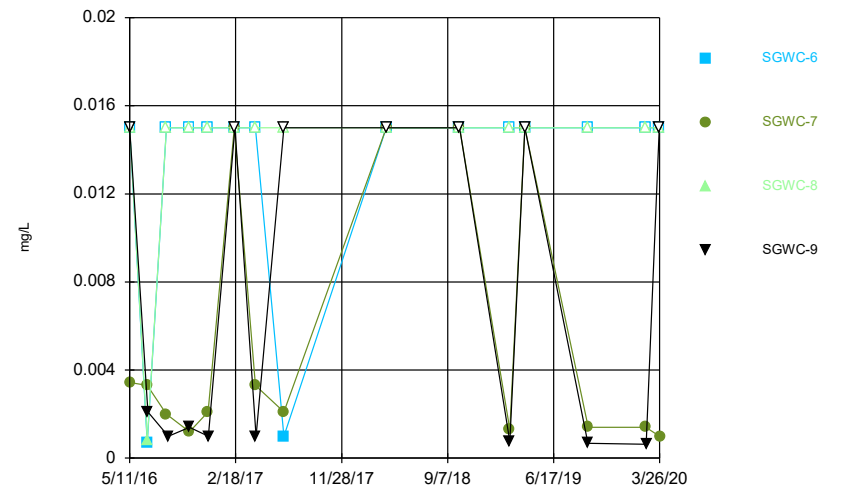
Constituent: Molybdenum Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



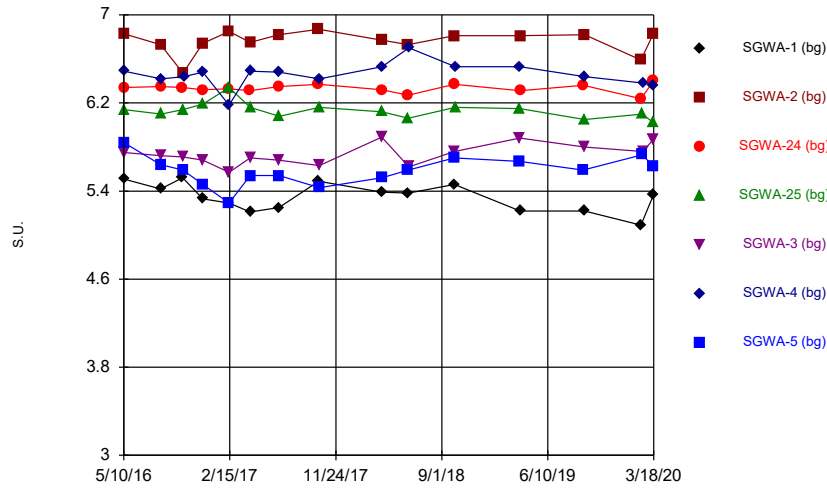
Constituent: Molybdenum Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



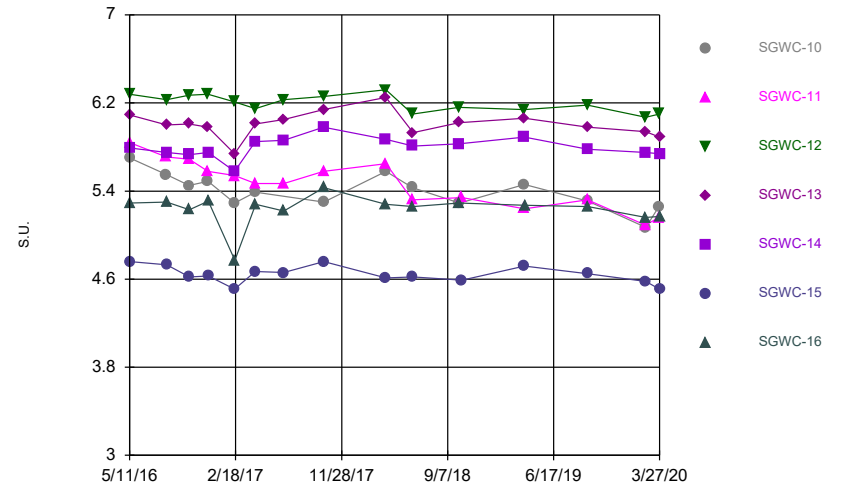
Constituent: Molybdenum Analysis Run 6/16/2020 2:47 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



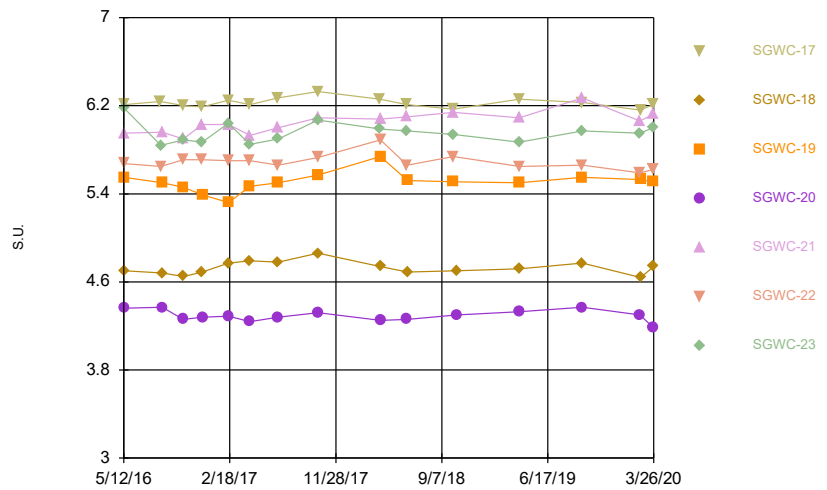
Constituent: pH Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



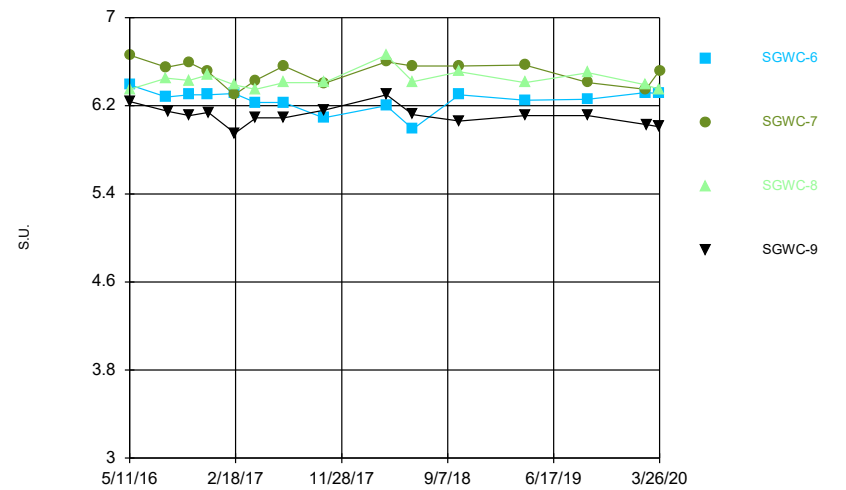
Constituent: pH Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



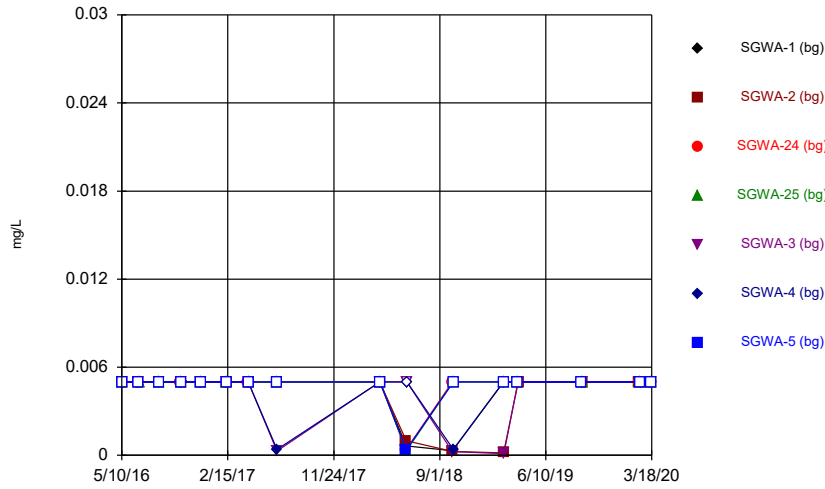
Constituent: pH Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



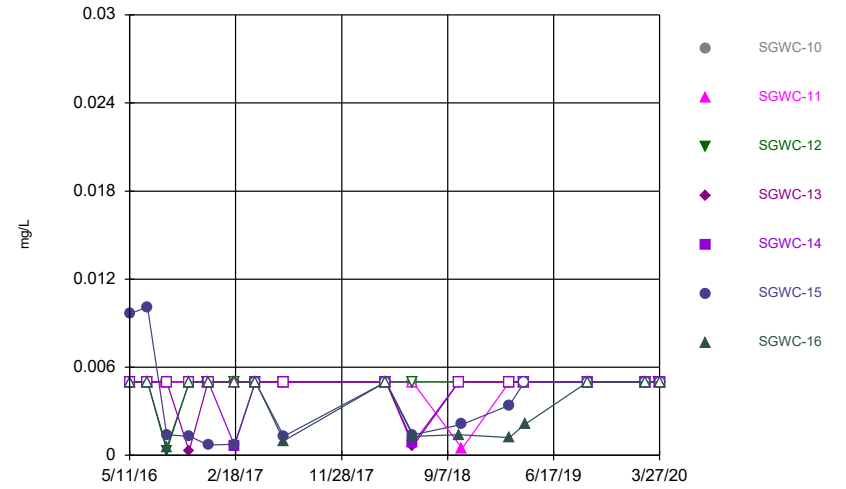
Constituent: pH Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



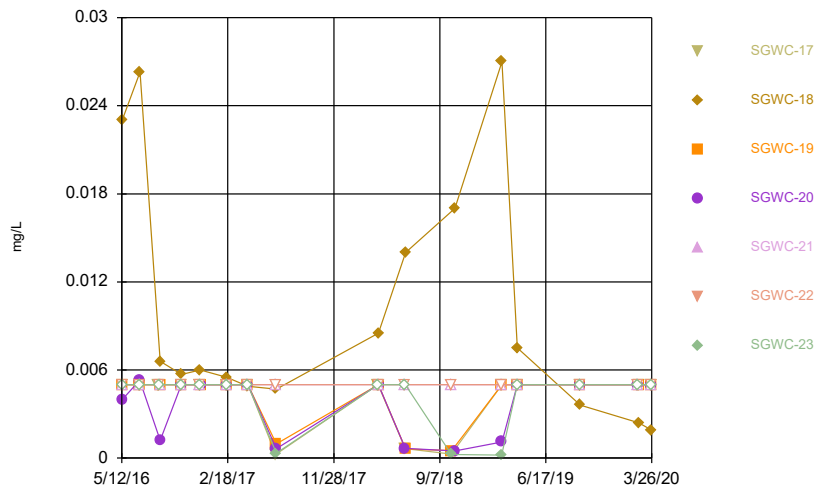
Constituent: Seleniun Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



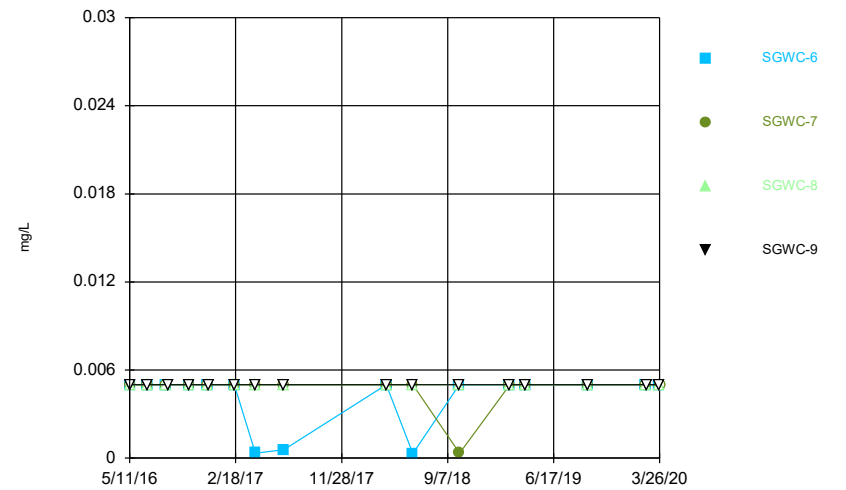
Constituent: Seleniun Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



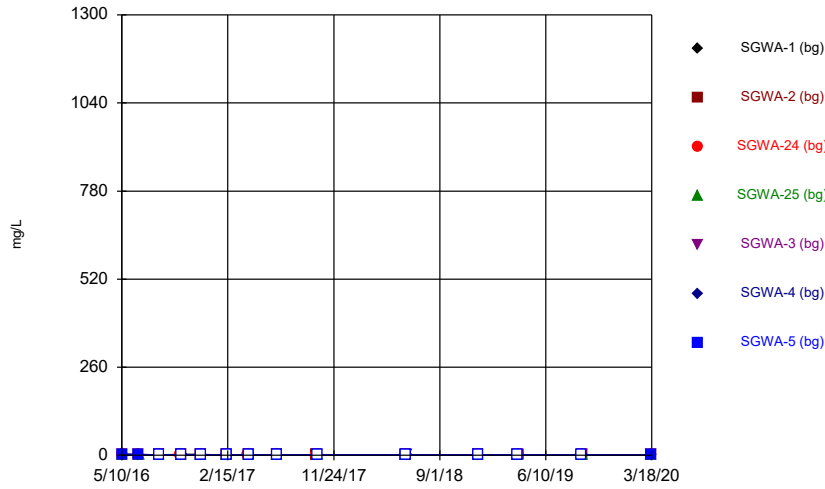
Constituent: Seleniun Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



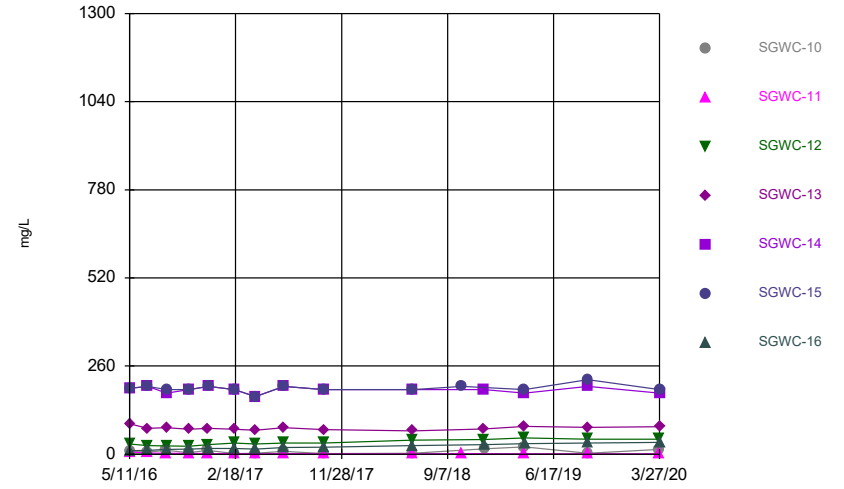
Constituent: Seleniun Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



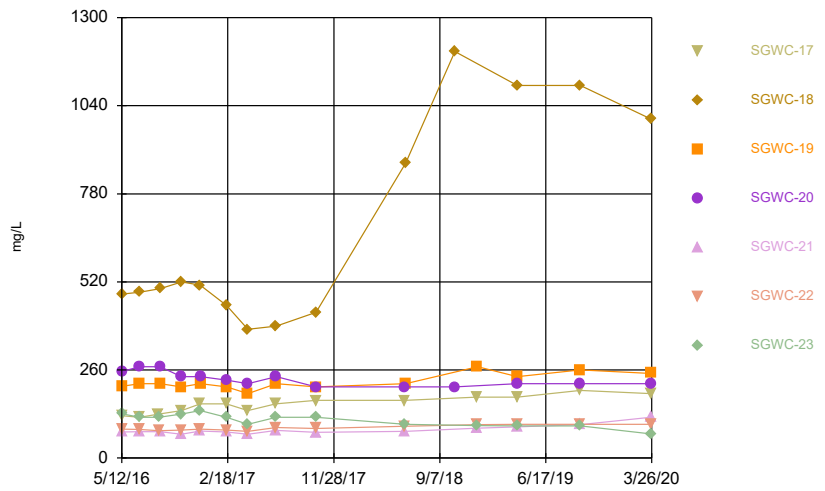
Constituent: Sulfate, total Analysis Run 6/17/2020 3:24 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



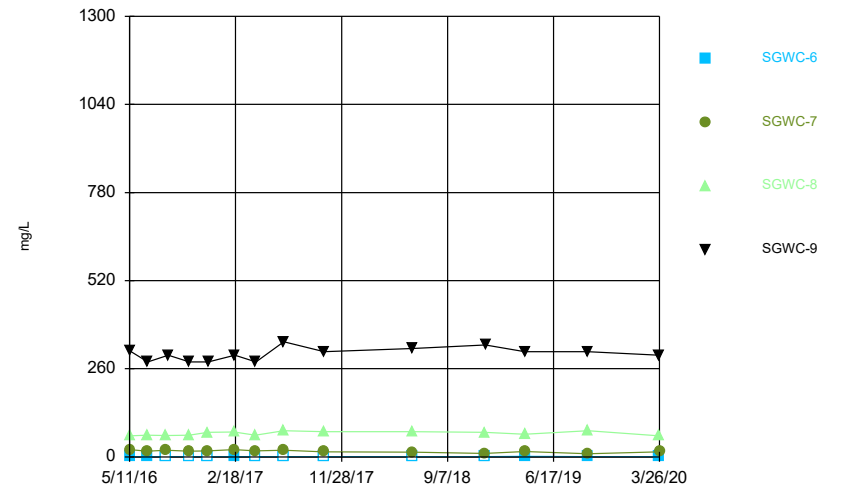
Constituent: Sulfate, total Analysis Run 6/17/2020 3:25 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



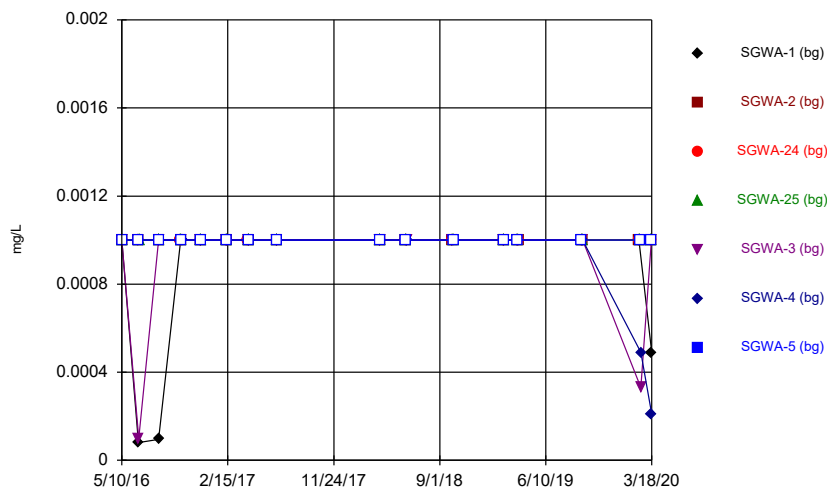
Constituent: Sulfate, total Analysis Run 6/17/2020 3:26 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



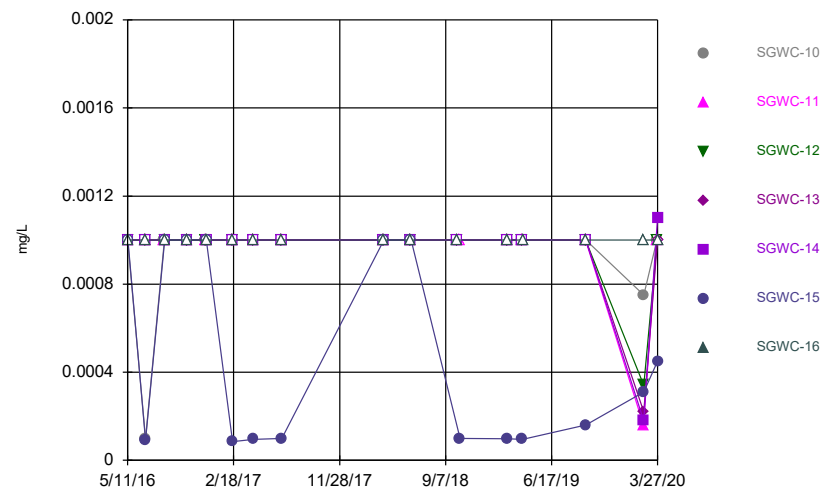
Constituent: Sulfate, total Analysis Run 6/17/2020 3:26 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



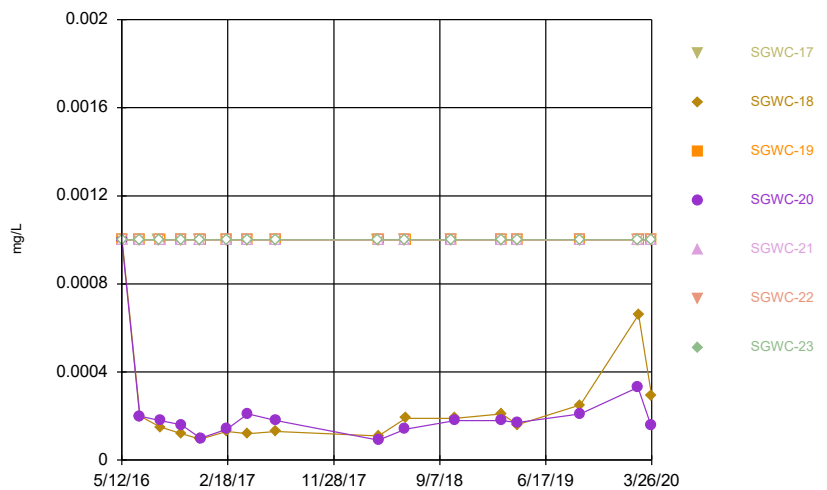
Constituent: Thallium Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



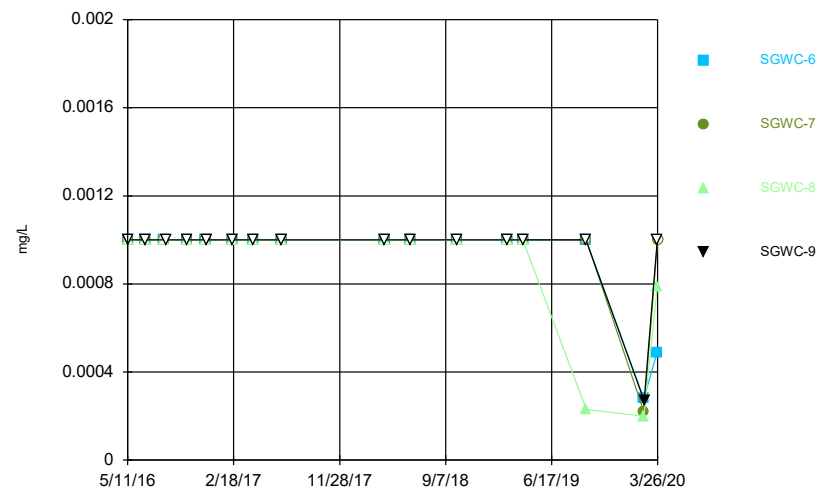
Constituent: Thallium Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



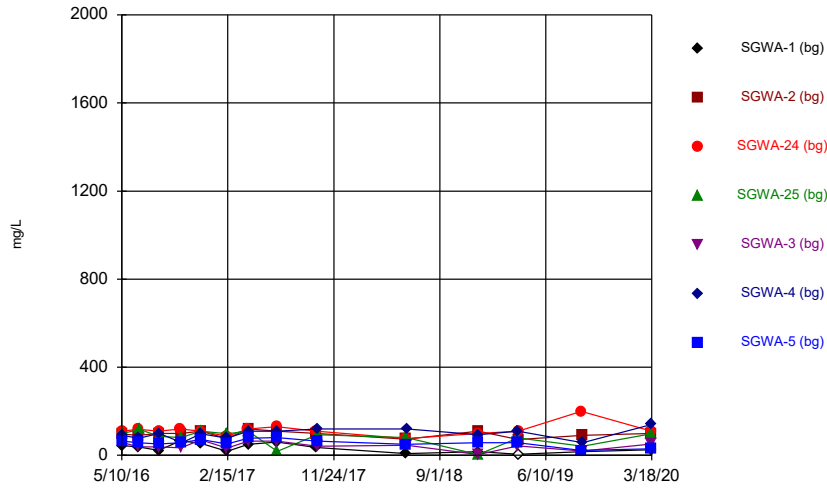
Constituent: Thallium Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



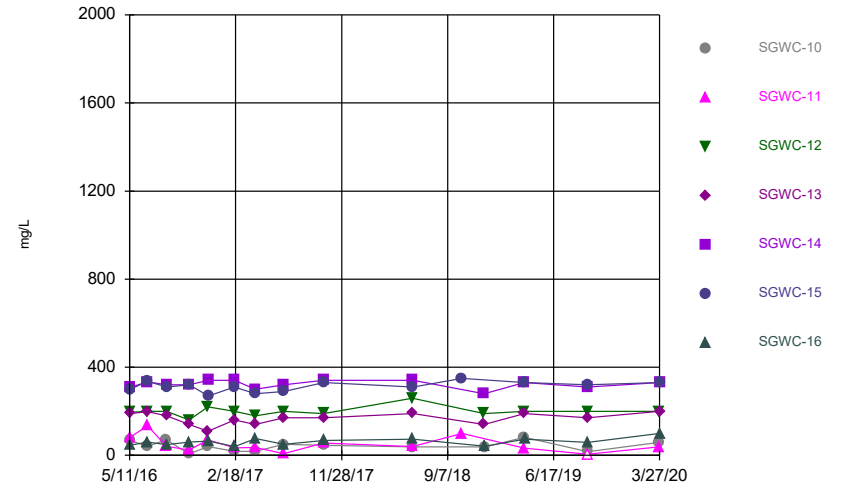
Constituent: Thallium Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



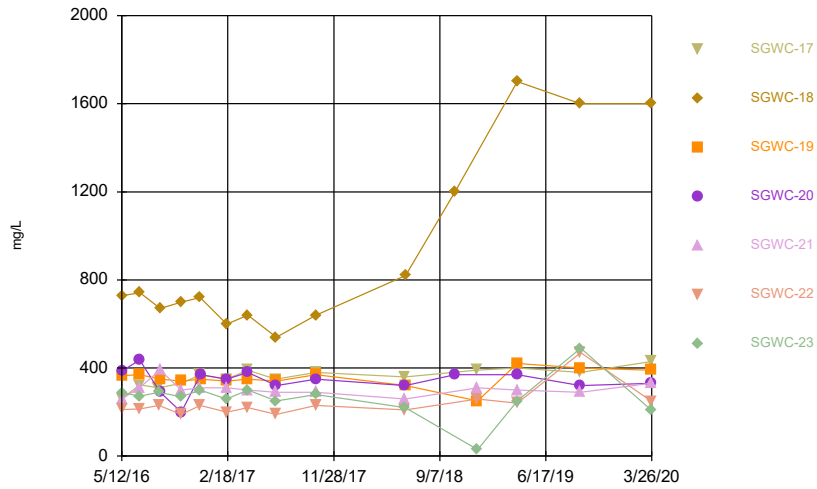
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



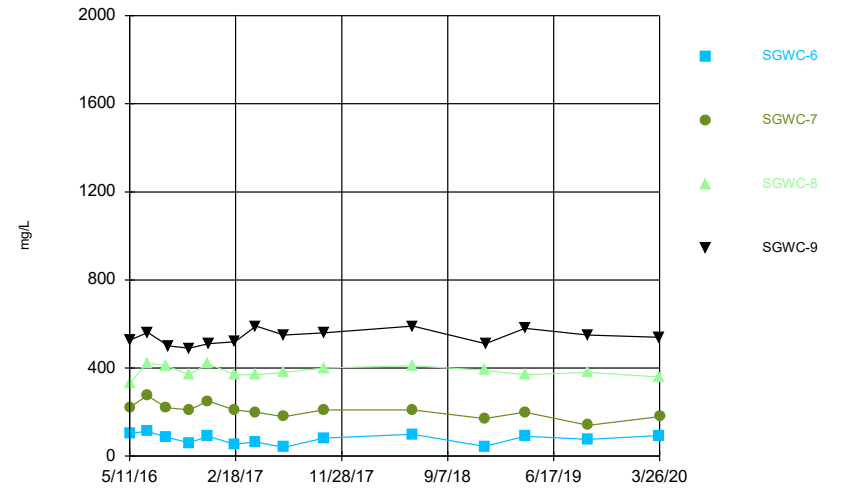
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
5/11/2016						<0.002	
6/23/2016	0.0004 (J)	<0.002	0.0003 (J)				<0.002
6/24/2016					0.0021 (J)	0.0007 (J)	
6/27/2016				0.0003 (J)			
8/16/2016	0.0012 (J)	<0.002	<0.002		<0.002		<0.002
8/17/2016				<0.002		<0.002	
10/13/2016	<0.002		<0.002				
10/14/2016		<0.002		<0.002	<0.002		<0.002
10/17/2016						<0.002	
12/5/2016			<0.002				
12/6/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
2/14/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/10/2017			<0.002				
4/11/2017	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
6/26/2017	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
6/27/2017				<0.002			
3/26/2018	<0.002	<0.002	<0.002		<0.002		
3/27/2018				<0.002		<0.002	<0.002
10/5/2018	<0.002	<0.002	<0.002		<0.002		
10/8/2018				<0.002		<0.002	<0.002
2/18/2019	<0.002	<0.002				<0.002	
2/19/2019			<0.002	<0.002	<0.002		<0.002
3/28/2019				<0.002	<0.002	<0.002	<0.002
3/29/2019	<0.002	<0.002	<0.002				
2/13/2020	<0.002	<0.002	<0.002				
2/17/2020				<0.002			<0.002
2/18/2020					<0.002	<0.002	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.002	<0.002	<0.002				
5/12/2016				<0.002	<0.002	<0.002	<0.002
6/28/2016	0.0014 (J)	<0.002	<0.002	0.0004 (J)	<0.002	<0.002	<0.002
8/17/2016	<0.002	<0.002					
8/18/2016			<0.002	<0.002	<0.002	<0.002	<0.002
10/17/2016	<0.002	<0.002	<0.002	<0.002	<0.002		
10/18/2016						<0.002	<0.002
12/6/2016	<0.002	<0.002	<0.002	<0.002			
12/7/2016					<0.002	<0.002	<0.002
2/15/2017	<0.002	<0.002	<0.002	<0.002 (F1)	<0.002	<0.002	
2/16/2017							<0.002
4/12/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
4/13/2017							<0.002
6/27/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/8/2018			<0.002	<0.002	<0.002		<0.002
10/9/2018	<0.002						
2/20/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/18/2020		<0.002					
2/19/2020	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002



# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.002			<0.002	<0.002	<0.002	<0.002
5/13/2016		<0.002	<0.002				
6/29/2016	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
6/30/2016		0.0012 (J)					
8/18/2016	<0.002						
8/19/2016						<0.002	<0.002
8/22/2016		<0.002	<0.002	<0.002	<0.002		
10/18/2016			<0.002	<0.002	<0.002	<0.002	<0.002
10/19/2016	<0.002 (D)	<0.002					
12/7/2016	<0.002	<0.002			<0.002	<0.002	<0.002
12/8/2016			<0.002	<0.002			
2/15/2017	<0.002						<0.002
2/16/2017		<0.002	<0.002	<0.002	<0.002	<0.002	
4/13/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/27/2017	<0.002						
6/28/2017		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002						<0.002
3/28/2018		<0.002	<0.002	<0.002	<0.002	<0.002	
10/8/2018	<0.002				<0.002	<0.002	<0.002
10/9/2018			<0.002				
2/19/2019						<0.002	<0.002
2/20/2019	<0.002	<0.002	<0.002	<0.002	<0.002		
2/18/2020				<0.002	<0.002	<0.002	<0.002
2/19/2020	<0.002		<0.002				
2/20/2020		<0.002					

# Time Series

Constituent: Antimony (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.002	<0.002	<0.002	<0.002
6/27/2016	<0.002	0.0004 (J)	<0.002	
6/29/2016				<0.002
8/17/2016	<0.002	<0.002	<0.002	
8/22/2016				<0.002
10/17/2016	<0.002		<0.002	
10/18/2016		<0.002		<0.002
12/6/2016	<0.002	<0.002	<0.002	
12/7/2016				<0.002
2/14/2017	<0.002	<0.002	<0.002	
2/16/2017				<0.002
4/12/2017	<0.002	<0.002	<0.002	
4/13/2017				<0.002
6/27/2017	<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002	<0.002	<0.002	
3/28/2018				<0.002
10/8/2018	<0.002			
10/9/2018		<0.002	<0.002	<0.002
2/20/2019	<0.002	<0.002	<0.002	<0.002
2/18/2020	<0.002	<0.002	<0.002	
2/19/2020				<0.002

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
5/11/2016						<0.001	
6/23/2016	<0.001	<0.001	<0.001				<0.001
6/24/2016					<0.001	<0.001	
6/27/2016				<0.001			
8/16/2016	0.00065 (J)	0.0005 (J)	<0.001		<0.001		<0.001
8/17/2016				0.0012 (J)		<0.001	
10/13/2016	<0.001		<0.001				
10/14/2016		<0.001		0.00073 (J)	<0.001		<0.001
10/17/2016						<0.001	
12/5/2016			<0.001				
12/6/2016	<0.001	<0.001		0.00075 (J)	<0.001	<0.001	<0.001
2/14/2017	0.00055 (J)	0.00046 (J)	0.00057 (J)	0.0015 (J)	<0.001	<0.001	<0.001
4/10/2017			<0.001				
4/11/2017	<0.001	<0.001		0.00072 (J)	<0.001	0.0011 (J)	<0.001
6/26/2017	0.00081 (J)	0.00089 (J)	0.0009 (J)		0.00063 (J)	0.00055 (J)	0.00079 (J)
6/27/2017				0.00095 (J)			
3/26/2018	<0.001	<0.001	<0.001		<0.001		
3/27/2018				0.00052 (J)		<0.001	<0.001
6/5/2018	<0.001	<0.001	<0.001	<0.001			<0.001
6/6/2018					<0.001	<0.001	
10/5/2018	<0.001	<0.001	<0.001		<0.001		
10/8/2018				<0.001		<0.001	<0.001
2/18/2019	<0.001	<0.001				<0.001	
2/19/2019			<0.001	<0.001	<0.001		<0.001
3/28/2019				0.00048 (J)	<0.001	<0.001	<0.001
3/29/2019	<0.001	<0.001	<0.001				
9/12/2019							<0.001
9/13/2019			<0.001				
9/16/2019	<0.001	<0.001		<0.001	<0.001	<0.001	
2/13/2020	<0.001	<0.001	<0.001				
2/17/2020				<0.001			<0.001
2/18/2020					<0.001	<0.001	
3/17/2020		<0.001		<0.001	<0.001		<0.001
3/18/2020	<0.001		<0.001			<0.001	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.001	0.00103 (J)	<0.001				
5/12/2016				<0.001	<0.001	<0.001	<0.001
6/28/2016	<0.001	0.0011 (J)	0.001 (J)	<0.001	<0.001	0.0026 (J)	<0.001
8/17/2016	<0.001	0.0011 (J)					
8/18/2016			0.00091 (J)	<0.001	<0.001	0.0015	<0.001
10/17/2016	<0.001	0.0011 (J)	<0.001	<0.001	<0.001		
10/18/2016						0.0019	<0.001
12/6/2016	<0.001	0.00072 (J)	<0.001	<0.001			
12/7/2016					<0.001	0.00079 (J)	<0.001
2/15/2017	0.0005 (J)	0.0011 (J)	0.00076 (J)	<0.001	<0.001	0.00073 (J)	
2/16/2017							<0.001
4/12/2017	<0.001	0.00076 (J)	0.00046 (J)	0.00047 (J)	0.00057 (J)	0.0009 (J)	
4/13/2017							<0.001
6/27/2017	0.00074 (J)	0.0011 (J)	0.0011 (J)	0.00088 (J)	0.00058 (J)	0.0011 (J)	0.00055 (J)
3/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/6/2018	<0.001	<0.001	<0.001				
6/7/2018				<0.001	<0.001	<0.001	<0.001
10/8/2018			0.0007 (J)	0.00069 (J)	0.0007 (J)		0.00054 (J)
10/9/2018	<0.001						
10/16/2018		<0.001				<0.001	
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	0.00075 (J)	<0.001
4/1/2019	0.00059 (J)	0.0011 (J)	0.0012 (J)	0.0014	0.0012 (J)	0.0016	
4/2/2019							<0.001
9/16/2019		<0.001	<0.001				
9/17/2019	<0.001			<0.001	<0.001	0.0008 (J)	<0.001
2/18/2020		<0.001					
2/19/2020	<0.001		0.00032 (J)	<0.001	<0.001	0.001	<0.001
3/25/2020	<0.001	<0.001					
3/26/2020			0.00032 (J)				
3/27/2020				<0.001	0.0014	0.0016	<0.001

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.001			<0.001	<0.001	<0.001	<0.001
5/13/2016		0.00161 (J)	<0.001				
6/29/2016	<0.001		<0.001	0.0018 (J)	<0.001	<0.001	<0.001
6/30/2016		0.004 (J)					
8/18/2016	<0.001						
8/19/2016						<0.001	<0.001
8/22/2016		0.0012 (J)	<0.001	0.001 (J)	<0.001		
10/18/2016			<0.001	0.00085 (J)	<0.001	<0.001	<0.001
10/19/2016	0.001045 (JD)	0.0019					
12/7/2016	<0.001	0.0012 (J)			<0.001	<0.001	<0.001
12/8/2016			<0.001	<0.001			
2/15/2017	0.00059 (J)						<0.001
2/16/2017		0.00086 (J)	<0.001	<0.001	<0.001	<0.001	
4/13/2017	0.00066 (J)	0.00058 (J)	<0.001	<0.001	<0.001	0.0006 (J)	0.00061 (J)
6/27/2017	0.00075 (J)						
6/28/2017		0.0011 (J)	0.00068 (J)	0.00094 (J)	0.00076 (J)	0.00089 (J)	0.00079 (J)
3/27/2018	<0.001						<0.001
3/28/2018		0.0015	<0.001	<0.001	<0.001	<0.001	
6/7/2018	<0.001			<0.001	<0.001	<0.001	<0.001
6/8/2018		0.002	<0.001				
10/8/2018	0.00075 (J)				<0.001	<0.001	<0.001
10/9/2018			0.00058 (J)				
10/18/2018		0.0031		<0.001 (D)			
2/19/2019						<0.001	<0.001
2/20/2019	<0.001	0.003	<0.001	<0.001	<0.001		
4/2/2019	<0.001	0.0027	<0.001	<0.001	<0.001	<0.001	<0.001
9/17/2019	<0.001	0.0029	<0.001	0.00037 (J)	<0.001		
9/18/2019						0.00035 (J)	<0.001
2/18/2020				0.00032 (J)	<0.001	0.00034 (J)	<0.001
2/19/2020	<0.001		<0.001				
2/20/2020		0.0031					
3/23/2020			<0.001	0.0005 (J)	<0.001		
3/24/2020	<0.001					<0.001	<0.001
3/26/2020		0.0047					

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.001	<0.001	<0.001	<0.001
6/27/2016	<0.001	0.0009 (J)	<0.001	
6/29/2016				0.0009 (J)
8/17/2016	<0.001	0.0006 (J)	<0.001	
8/22/2016				<0.001
10/17/2016	<0.001		<0.001	
10/18/2016		<0.001		0.00074 (J)
12/6/2016	<0.001	<0.001	<0.001	
12/7/2016				0.00079 (J)
2/14/2017	0.0006 (J)	0.00059 (J)	0.0005 (J)	
2/16/2017				0.00056 (J)
4/12/2017	0.00046 (J)	0.00058 (J)	<0.001	
4/13/2017				0.00079 (J)
6/27/2017	<0.001	<0.001	0.00076 (J)	0.0011 (J)
3/27/2018	<0.001	<0.001	<0.001	
3/28/2018				<0.001
6/6/2018	<0.001	<0.001	<0.001	<0.001
10/8/2018	<0.001			
10/9/2018		0.00057 (J)	0.00053 (J)	0.00068 (J)
2/20/2019	<0.001	<0.001	<0.001	<0.001
4/1/2019		<0.001	0.001 (J)	<0.001
4/2/2019	<0.001			
9/16/2019	<0.001			<0.001
9/17/2019		<0.001	0.00035 (J)	
2/18/2020	<0.001	<0.001	<0.001	
2/19/2020				0.00039 (J)
3/25/2020	0.00044 (J)		0.00063 (J)	<0.001
3/26/2020		<0.001		

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.0663	0.0409	0.0214	0.0253	0.036		0.0112
5/11/2016						0.0484	
6/23/2016	0.055	0.0342	0.0204				0.0101
6/24/2016					0.0343	0.0471	
6/27/2016				0.0253			
8/16/2016	0.048	0.034	0.018		0.029		0.0088
8/17/2016				0.021		0.046	
10/13/2016	0.061		0.022				
10/14/2016		0.041		0.023	0.034		0.01
10/17/2016						0.049	
12/5/2016			0.023				
12/6/2016	0.053	0.042		0.02	0.033	0.047	0.011
2/14/2017	0.046	0.035	0.021	0.018	0.032	0.05	0.01
4/10/2017			0.021				
4/11/2017	0.046	0.037		0.021	0.033	0.053	0.01
6/26/2017	0.048	0.037	0.022		0.036	0.058	0.011
6/27/2017				0.024			
3/26/2018	0.053	0.036	0.022		0.035		
3/27/2018				0.024		0.061	0.01
6/5/2018	0.058	0.038	0.022	0.024			0.011
6/6/2018					0.036	0.058	
10/5/2018	0.058	0.036	0.024		0.035		
10/8/2018				0.024		0.064	0.011
2/18/2019	0.046	0.035				0.057	
2/19/2019			0.019	0.022	0.033		0.0094
3/28/2019				0.022	0.036	0.061	0.0097
3/29/2019	0.044	0.039	0.021				
9/12/2019							0.012
9/13/2019			0.025				
9/16/2019	0.048	0.045		0.028	0.041	0.068	
2/13/2020	0.042	0.043	0.025				
2/17/2020				0.026			0.01
2/18/2020					0.04	0.069	
3/17/2020		0.039		0.025	0.037		0.01
3/18/2020	0.046		0.023			0.071	

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.0294	0.038	0.0324				
5/12/2016				0.0198	0.067	0.041	0.0163
6/28/2016	0.0293	0.0363	0.0321	0.0208	0.0668	0.0435	0.0165
8/17/2016	0.029	0.033					
8/18/2016			0.03	0.022	0.06	0.043	0.017
10/17/2016	0.027	0.035	0.032	0.024	0.06		
10/18/2016						0.041	0.017
12/6/2016	0.03	0.035	0.032	0.025			
12/7/2016					0.063	0.042	0.017
2/15/2017	0.025	0.036	0.036	0.026	0.061	0.038	
2/16/2017							0.017
4/12/2017	0.028	0.038	0.037	0.029	0.062	0.038	
4/13/2017							0.019
6/27/2017	0.034	0.042	0.042	0.031	0.06	0.041	0.02
3/27/2018	0.031	0.039	0.043	0.029	0.055	0.035	0.021
6/6/2018	0.027	0.041	0.048				
6/7/2018				0.032	0.057	0.035	0.022
10/8/2018			0.049	0.033	0.053		0.025
10/9/2018	0.032						
10/16/2018		0.037 (D)				0.031 (D)	
2/20/2019	0.036	0.044	0.054	0.041	0.053	0.036	0.027
4/1/2019	0.039	0.041	0.051	0.038	0.054	0.034	
4/2/2019							0.023
9/16/2019		0.045	0.052				
9/17/2019	0.029			0.036	0.048	0.034	0.029
2/18/2020		0.044					
2/19/2020	0.027		0.053	0.033	0.047	0.031	0.029
3/25/2020	0.036	0.046					
3/26/2020			0.051				
3/27/2020				0.034	0.049	0.028	0.027



# Time Series

Constituent: Barium (mg/L) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.0157			0.0436	0.0914	0.1	0.0959
5/13/2016		0.0138	0.0507				
6/29/2016	0.0161 (J)		0.0485	0.0466	0.0933	0.0991	0.0957
6/30/2016		0.0145 (J)					
8/18/2016	0.016						
8/19/2016						0.096	0.093
8/22/2016		0.014	0.044	0.038	0.086		
10/18/2016			0.042	0.039	0.093	0.096	0.093
10/19/2016	0.021 (D)	0.016					
12/7/2016	0.018	0.015			0.096	0.09	0.09
12/8/2016			0.045	0.038			
2/15/2017	0.02						0.09
2/16/2017		0.013	0.04	0.034	0.091	0.091	
4/13/2017	0.019	0.012	0.037	0.028	0.088	0.091	0.081
6/27/2017	0.019						
6/28/2017		0.012	0.04	0.03	0.094	0.1	0.085
3/27/2018	0.02						0.076
3/28/2018		0.029	0.034	0.027	0.09	0.084	
6/7/2018	0.02			0.029	0.092	0.084	0.082
6/8/2018		0.032	0.035				
10/8/2018	0.021				0.092	0.084	0.077
10/9/2018			0.037				
10/18/2018		0.033 (D)		0.027 (D)			
2/19/2019						0.075	0.064
2/20/2019	0.023	0.034	0.036	0.03	0.1		
4/2/2019	0.02	0.028	0.03	0.023	0.087	0.076	0.068
9/17/2019	0.025	0.026	0.035	0.025	0.097		
9/18/2019						0.078	0.068
2/18/2020				0.023	0.11	0.085	0.065
2/19/2020	0.022		0.034				
2/20/2020		0.023					
3/23/2020			0.032	0.024	0.1		
3/24/2020	0.024					0.081	0.065
3/26/2020		0.02					

# Time Series

Constituent: Barium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	0.0933	0.295	0.251	0.0494
6/27/2016	0.101	0.353	0.205	
6/29/2016				0.0535
8/17/2016	0.094	0.29	0.16	
8/22/2016				0.049
10/17/2016	0.11		0.17	
10/18/2016		0.29		0.049
12/6/2016	0.11	0.31	0.16	
12/7/2016				0.048
2/14/2017	0.056	0.3	0.18	
2/16/2017				0.056
4/12/2017	0.048	0.3	0.18	
4/13/2017				0.063
6/27/2017	0.058	0.36	0.18	0.067
3/27/2018	0.021	0.27	0.17	
3/28/2018				0.069
6/6/2018	0.014	0.24	0.18	0.069
10/8/2018	0.069			
10/9/2018		0.28	0.17	0.077
2/20/2019	0.052	0.28	0.2	0.077
4/1/2019		0.24	0.19	0.071
4/2/2019	0.069			
9/16/2019	0.13			0.077
9/17/2019		0.23	0.19	
2/18/2020	0.083	0.25	0.17	
2/19/2020				0.065
3/25/2020	0.12		0.19	0.066
3/26/2020		0.23		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
5/11/2016						<0.0025	
6/23/2016	0.0002 (J)	<0.0025	<0.0025				<0.0025
6/24/2016					<0.0025	<0.0025	
6/27/2016				<0.0025			
8/16/2016	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025
8/17/2016				<0.0025		<0.0025	
10/13/2016	<0.0025		<0.0025				
10/14/2016		<0.0025		<0.0025	<0.0025		<0.0025
10/17/2016						<0.0025	
12/5/2016			<0.0025				
12/6/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
2/14/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/10/2017			<0.0025				
4/11/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/26/2017	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
6/27/2017				<0.0025			
3/26/2018	<0.0025	<0.0025	<0.0025		<0.0025		
3/27/2018				<0.0025		<0.0025	<0.0025
6/5/2018	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
6/6/2018					<0.0025	<0.0025	
10/5/2018	<0.0025	<0.0025	<0.0025		<0.0025		
10/8/2018				<0.0025		<0.0025	<0.0025
2/18/2019	<0.0025	<0.0025				<0.0025	
2/19/2019			<0.0025	<0.0025	<0.0025		<0.0025
3/28/2019				<0.0025	<0.0025	<0.0025	<0.0025
3/29/2019	<0.0025	<0.0025	<0.0025				
9/12/2019							<0.0025
9/13/2019			<0.0025				
9/16/2019	0.00028 (J)	<0.0025		<0.0025	<0.0025	<0.0025	
2/13/2020	0.00031 (J)	<0.0025	<0.0025				
2/17/2020				<0.0025			<0.0025
2/18/2020					<0.0025	<0.0025	
3/17/2020		<0.0025		<0.0025	<0.0025		<0.0025
3/18/2020	0.00029 (J)		<0.0025			0.00018 (J)	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.0025	<0.0025	<0.0025				
5/12/2016				<0.0025	<0.0025	<0.0025	<0.0025
6/28/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025
8/17/2016	<0.0025	<0.0025					
8/18/2016			<0.0025	<0.0025	<0.0025	0.00037 (J)	<0.0025
10/17/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/18/2016						<0.0025	<0.0025
12/6/2016	<0.0025	<0.0025	<0.0025	<0.0025			
12/7/2016					<0.0025	<0.0025	<0.0025
2/15/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00037 (J)	
2/16/2017							<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00035 (J)	
4/13/2017							<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0004 (J)	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00041 (J)	<0.0025
6/6/2018	<0.0025	<0.0025	<0.0025				
6/7/2018				<0.0025	<0.0025	0.00038 (J)	<0.0025
10/8/2018			<0.0025	<0.0025	<0.0025		<0.0025
10/9/2018	<0.0025						
10/16/2018		<0.0025 (D)				0.0004 (JD)	
2/20/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00042 (J)	<0.0025
4/1/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00034 (J)	
4/2/2019							<0.0025
9/16/2019		<0.0025	<0.0025				
9/17/2019	<0.0025			<0.0025	<0.0025	0.00046 (J)	<0.0025
2/18/2020		<0.0025					
2/19/2020	0.00026 (J)		<0.0025	<0.0025	<0.0025	0.00045 (J)	<0.0025
3/25/2020	<0.0025	<0.0025					
3/26/2020			<0.0025				
3/27/2020				<0.0025	0.00053 (J)	0.00059 (J)	<0.0025

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.0025			0.000742 (J)	<0.0025	<0.0025	<0.0025
5/13/2016		<0.0025	<0.0025				
6/29/2016	<0.0025		0.0002 (J)	0.0007 (J)	<0.0025	<0.0025	<0.0025
6/30/2016		0.0003 (J)					
8/18/2016	<0.0025						
8/19/2016						<0.0025	<0.0025
8/22/2016		<0.0025	<0.0025	0.00074 (J)	<0.0025		
10/18/2016			<0.0025	0.00075 (J)	<0.0025	<0.0025	<0.0025
10/19/2016	<0.0025 (D)	<0.0025					
12/7/2016	<0.0025	<0.0025			<0.0025	<0.0025	<0.0025
12/8/2016			<0.0025	0.00093 (J)			
2/15/2017	<0.0025						<0.0025
2/16/2017		<0.0025	<0.0025	0.00091 (J)	<0.0025	<0.0025	
4/13/2017	<0.0025	<0.0025	<0.0025	0.00065 (J)	<0.0025	<0.0025	<0.0025
6/27/2017	<0.0025						
6/28/2017		<0.0025	<0.0025	0.00073 (J)	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025						<0.0025
3/28/2018		0.00036 (J)	<0.0025	0.00079 (J)	<0.0025	<0.0025	
6/7/2018	<0.0025			0.00086 (J)	<0.0025	<0.0025	<0.0025
6/8/2018		0.00035 (J)	<0.0025				
10/8/2018	<0.0025				<0.0025	<0.0025	<0.0025
10/9/2018			<0.0025				
10/18/2018		<0.0025 (D)		0.00079 (JD)			
2/19/2019						<0.0025	<0.0025
2/20/2019	<0.0025	0.00033 (J)	0.00016 (J)	0.00077 (J)	<0.0025		
4/2/2019	<0.0025	<0.0025	<0.0025	0.00043 (J)	<0.0025	<0.0025	<0.0025
9/17/2019	<0.0025	0.00035 (J)	<0.0025	0.00057 (J)	<0.0025		
9/18/2019						<0.0025	<0.0025
2/18/2020				0.00052 (J)	<0.0025	<0.0025	<0.0025
2/19/2020	<0.0025		<0.0025				
2/20/2020		0.00049 (J)					
3/23/2020			<0.0025	0.00077 (J)	<0.0025		
3/24/2020	<0.0025					<0.0025	<0.0025
3/26/2020		0.00033 (J)					

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.0025	<0.0025	<0.0025	<0.0025
6/27/2016	<0.0025	<0.0025	<0.0025	
6/29/2016				<0.0025
8/17/2016	<0.0025	<0.0025	<0.0025	
8/22/2016				<0.0025
10/17/2016	<0.0025		<0.0025	
10/18/2016		<0.0025		<0.0025
12/6/2016	<0.0025	<0.0025	<0.0025	
12/7/2016				<0.0025
2/14/2017	<0.0025	<0.0025	<0.0025	
2/16/2017				<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	
4/13/2017				<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	
3/28/2018				<0.0025
6/6/2018	<0.0025	<0.0025	<0.0025	<0.0025
10/8/2018	<0.0025			
10/9/2018		<0.0025	<0.0025	<0.0025
2/20/2019	<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019		<0.0025	<0.0025	<0.0025
4/2/2019	<0.0025			
9/16/2019	<0.0025			<0.0025
9/17/2019		<0.0025	0.00019 (J)	
2/18/2020	<0.0025	<0.0025	<0.0025	
2/19/2020				<0.0025
3/25/2020	0.0002 (J)		0.0003 (J)	<0.0025
3/26/2020		<0.0025		

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.08	<0.08	<0.08	<0.08	<0.08		<0.08
5/11/2016						<0.08	
6/23/2016	<0.08	<0.08	<0.08				<0.08
6/24/2016					0.0109 (J)	0.0067 (J)	
6/27/2016				0.0052 (J)			
8/16/2016	<0.08	<0.08	<0.08		<0.08		<0.08
8/17/2016				<0.08		<0.08	
10/13/2016	<0.08		<0.08				
10/14/2016		<0.08		<0.08	<0.08		<0.08
10/17/2016						<0.08	
12/5/2016			<0.08				
12/6/2016	<0.08	<0.08		<0.08	<0.08	<0.08	<0.08
2/14/2017	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
4/10/2017			<0.08				
4/11/2017	<0.08	<0.08		<0.08	<0.08	<0.08	<0.08
6/26/2017	<0.08	<0.08	<0.08		<0.08	<0.08	<0.08
6/27/2017				<0.08			
10/10/2017	<0.08	<0.08	<0.08				
10/11/2017				<0.08	<0.08	<0.08	<0.08
6/5/2018	<0.08	<0.08	<0.08	<0.08			<0.08
6/6/2018					<0.08	<0.08	
12/13/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
3/28/2019				<0.08	<0.08	<0.08	<0.08
3/29/2019	<0.08	<0.08	<0.08				
9/12/2019							<0.08
9/13/2019			<0.08				
9/16/2019	0.13	0.089		<0.08	0.05	<0.08	
3/17/2020		<0.08		<0.08	<0.08		<0.08
3/18/2020	<0.08		<0.08			<0.08	

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.0275 (J)	0.242	<0.08				
5/12/2016				0.599	1.38	1.57	0.562
6/28/2016	0.035 (J)	0.245	0.0054 (J)	0.52	1.29	1.36	0.546
8/17/2016	0.028 (J)	0.26					
8/18/2016			<0.08	0.51	1.3	1.5	0.54
10/17/2016	0.032 (J)	0.25	<0.08	0.58	1.6		
10/18/2016						1.9	0.55
12/6/2016	<0.08	0.27	<0.08	0.5			
12/7/2016					1.5	1.5	0.56
2/15/2017	0.035 (J)	0.28	<0.08	0.5	1.5	1.5	
2/16/2017							0.58
4/12/2017	0.052	0.29	<0.08	0.47	1.4	1.7	
4/13/2017							0.56
6/27/2017	<0.08	0.29	<0.08	0.51	1.6	1.7	0.56
10/11/2017		0.31	<0.08	0.49	1.5		
10/12/2017	0.049 (J)					1.6	0.57
6/6/2018	0.07	0.37	<0.08				
6/7/2018				0.45	1.6	1.7	0.59
10/16/2018		0.35 (D)				1.5 (D)	
12/14/2018			<0.08	0.47	1.4		
12/17/2018	0.098						0.55
4/1/2019	0.16	0.46	<0.08	0.57	1.7	1.6	
4/2/2019							0.53
9/16/2019		0.39	<0.08				
9/17/2019	0.077			0.43	1.4	1.4	0.55
3/25/2020	0.12	0.45					
3/26/2020			<0.08				
3/27/2020				0.49	1.5	1.4	0.59



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.195			1.99	1.4	0.411	0.691
5/13/2016		3.71	1.87				
6/29/2016	0.198 (J)		1.67	1.88	1.25	0.373 (J)	0.557
6/30/2016		3.8					
8/18/2016	0.24						
8/19/2016						0.37	0.58
8/22/2016		3.3	1.7	2	1.3		
10/18/2016			2.1	2.5	1.7	0.41	0.68
10/19/2016	0.37 (D)	4.5					
12/7/2016	0.4	4.8			1.3	0.36	0.6
12/8/2016			1.7	1.9			
2/15/2017	0.38						0.82
2/16/2017		3.9	2.3	2.3	1.4	0.38 (J)	
4/13/2017	0.34	3.8	1.9	2	1.4	0.4	0.54
6/27/2017	0.33						
6/28/2017		3.6	1.9	2.3	1.4	0.35	0.59
10/12/2017	0.47	3.9	1.9	2.6	1.4	0.4	0.54
6/7/2018	0.35			2.1	1.4	0.41	0.71
6/8/2018		4.3	1.8				
10/18/2018		4.9 (D)		2.3 (D)			
12/14/2018	0.44						
12/17/2018			1.8		1.2	0.4	0.6
4/2/2019	0.32	5.3	2	2	1.2	0.44	0.52
9/17/2019	0.43	5	1.8	1.8	1.1		
9/18/2019						0.52	0.54
3/23/2020			1.7	1.9	0.83		
3/24/2020	0.37					0.34	0.55
3/26/2020		6					

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.08	0.0359 (J)	0.0678 (J)	1.54
6/27/2016	0.0051 (J)	0.0354 (J)	0.0767 (J)	
6/29/2016				1.52
8/17/2016	<0.08	0.039 (J)	0.067	
8/22/2016				1.6
10/17/2016	<0.08		0.059	
10/18/2016		0.039 (J)		2.4
12/6/2016	<0.08	0.03 (J)	0.054	
12/7/2016				1.6
2/14/2017	<0.08	0.031 (J)	0.063	
2/16/2017				1.6
4/12/2017	<0.08	0.039 (J)	0.068	
4/13/2017				1.7
6/27/2017	<0.08	0.028 (J)	0.067	1.8
10/11/2017	<0.08	0.026 (J)		
10/12/2017			0.075	1.8
6/6/2018	<0.08	<0.08	0.059	1.8
12/14/2018	<0.08	<0.08	0.064	
12/17/2018				1.6
4/1/2019		0.025 (J)	0.076	1.7
4/2/2019	<0.08			
9/16/2019	0.04 (J)			1.6
9/17/2019		<0.08	0.11	
3/25/2020	<0.08		0.089	1.6
3/26/2020		0.055 (J)		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.000156 (J)	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
5/11/2016						<0.0025	
6/23/2016	<0.0025	<0.0025	<0.0025				<0.0025
6/24/2016					<0.0025	<0.0025	
6/27/2016				<0.0025			
8/16/2016	<0.0025	<0.0025	<0.0025		<0.0025		<0.0025
8/17/2016				<0.0025		<0.0025	
10/13/2016	<0.0025		<0.0025				
10/14/2016		<0.0025		<0.0025	<0.0025		<0.0025
10/17/2016						<0.0025	
12/5/2016			<0.0025				
12/6/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
2/14/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/10/2017			<0.0025				
4/11/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	0.0011 (J)
6/26/2017	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
6/27/2017				<0.0025			
3/26/2018	<0.0025	<0.0025	<0.0025		<0.0025		
3/27/2018				<0.0025		<0.0025	<0.0025
10/5/2018	<0.0025	<0.0025	<0.0025		<0.0025		
10/8/2018				<0.0025		<0.0025	<0.0025
2/18/2019	<0.0025	<0.0025				<0.0025	
2/19/2019			<0.0025	<0.0025	<0.0025		<0.0025
3/28/2019				<0.0025	<0.0025	<0.0025	<0.0025
3/29/2019	<0.0025	<0.0025	<0.0025				
9/12/2019							<0.0025
9/13/2019			<0.0025				
9/16/2019	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	
2/13/2020	<0.0025	<0.0025	<0.0025				
2/17/2020				<0.0025			<0.0025
2/18/2020					<0.0025	<0.0025	
3/17/2020		<0.0025		<0.0025	<0.0025		<0.0025
3/18/2020	<0.0025		<0.0025			<0.0025	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.0025	<0.0025	<0.0025				
5/12/2016				<0.0025	0.000136 (J)	0.000265 (J)	<0.0025
6/28/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025
8/17/2016	<0.0025	<0.0025					
8/18/2016			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/17/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/18/2016						<0.0025	<0.0025
12/6/2016	<0.0025	<0.0025	<0.0025	<0.0025			
12/7/2016					<0.0025	<0.0025	<0.0025
2/15/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00044 (J)	
2/16/2017							<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
4/13/2017							<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/8/2018			<0.0025	<0.0025	<0.0025		<0.0025
10/9/2018	<0.0025						
10/16/2018		<0.0025				<0.0025	
2/20/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00033 (J)	<0.0025
4/1/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
4/2/2019							<0.0025
9/16/2019		<0.0025	<0.0025				
9/17/2019	<0.0025			<0.0025	<0.0025	0.00034 (J)	<0.0025
2/18/2020		<0.0025					
2/19/2020	<0.0025		<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025
3/25/2020	<0.0025	<0.0025					
3/26/2020			<0.0025				
3/27/2020				<0.0025	0.00057 (J)	0.00042 (J)	<0.0025

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.0025			0.000108 (J)	<0.0025	<0.0025	<0.0025
5/13/2016		0.00016 (J)	<0.0025				
6/29/2016	<0.0025		<0.0025	0.0001 (J)	<0.0025	<0.0025	<0.0025
6/30/2016		0.0002 (J)					
8/18/2016	<0.0025						
8/19/2016						<0.0025	<0.0025
8/22/2016		<0.0025	<0.0025	<0.0025	<0.0025		
10/18/2016			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/19/2016	<0.0025 (D)	<0.0025					
12/7/2016	<0.0025	<0.0025			<0.0025	<0.0025	<0.0025
12/8/2016			<0.0025	<0.0025			
2/15/2017	<0.0025						<0.0025
2/16/2017		<0.0025	0.00036 (J)	<0.0025	0.00039 (J)	<0.0025	
4/13/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/27/2017	<0.0025						
6/28/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025						<0.0025
3/28/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
10/8/2018	<0.0025				<0.0025	<0.0025	<0.0025
10/9/2018			<0.0025				
10/18/2018		<0.0025		<0.0025			
2/19/2019						<0.0025	<0.0025
2/20/2019	<0.0025	0.00023 (J)	<0.0025	<0.0025	<0.0025		
4/2/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/17/2019	<0.0025	0.00018 (J)	<0.0025	<0.0025	<0.0025		
9/18/2019						<0.0025	<0.0025
2/18/2020				<0.0025	<0.0025	<0.0025	<0.0025
2/19/2020	<0.0025		<0.0025				
2/20/2020		0.00032 (J)					
3/23/2020			<0.0025	<0.0025	<0.0025		
3/24/2020	<0.0025					<0.0025	<0.0025
3/26/2020		<0.0025					

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.0025	<0.0025	<0.0025	<0.0025
6/27/2016	<0.0025	<0.0025	<0.0025	
6/29/2016				<0.0025
8/17/2016	<0.0025	<0.0025	<0.0025	
8/22/2016				<0.0025
10/17/2016	<0.0025		<0.0025	
10/18/2016		<0.0025		<0.0025
12/6/2016	<0.0025	<0.0025	<0.0025	
12/7/2016				<0.0025
2/14/2017	<0.0025	<0.0025	<0.0025	
2/16/2017				<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	
4/13/2017				<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	
3/28/2018				<0.0025
10/8/2018	<0.0025			
10/9/2018		<0.0025	<0.0025	<0.0025
2/20/2019	<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019		<0.0025	<0.0025	<0.0025
4/2/2019	<0.0025			
9/16/2019	<0.0025			<0.0025
9/17/2019		<0.0025	<0.0025	
2/18/2020	<0.0025	<0.0025	<0.0025	
2/19/2020				<0.0025
3/25/2020	0.00022 (J)		0.00031 (J)	<0.0025
3/26/2020		<0.0025		

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	3	10.1	12.3	11.4	6.22		2.64
5/11/2016						14.4	
6/23/2016	2.42	8.45	11.3				1.65
6/24/2016					5.55	14.2	
6/27/2016				9.16			
8/16/2016	2.1	9.4	11		5		1.3
8/17/2016				9.6		15	
10/13/2016	2.7		12				
10/14/2016		10		11	5.4		1.4
10/17/2016						16	
12/5/2016			12				
12/6/2016	2.1	10		11	4.8	15	1.4
2/14/2017	1.8	11	13	12	4.6	17	1.4
4/10/2017			12				
4/11/2017	1.8	10		11	5	17	1.4
6/26/2017	1.7 (D)	10 (D)	13 (D)		4.9 (D)	18 (D)	1.5 (D)
6/27/2017				9.5 (D)			
10/10/2017	2.3	11	14				
10/11/2017				11	5.5	19	1.6
6/5/2018	2.6	11	13	9.7			1.5
6/6/2018					4.1	18	
12/13/2018	1.7	10	12	9.4	4.3	18	1.4
3/28/2019				8.7	4.8	17	1.4
3/29/2019	2	11	12				
9/12/2019							1.6
9/13/2019			14				
9/16/2019	1.7	12		9.5	5.9	18	
3/17/2020		11		8.8	5.3		1.7
3/18/2020	1.8		14			18	

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	4.14	2.91	23.1				
5/12/2016				16.6	37.7	14.5	0.75
6/28/2016	3.13	2.19	21	14.4	35.8	14.7	0.768
8/17/2016	4.1	1.9					
8/18/2016			20	15	37	15	0.7
10/17/2016	4.2	2	21	15	37		
10/18/2016						16	0.75
12/6/2016	4.3	1.9	21	14			
12/7/2016					38	15	0.73
2/15/2017	1.5	1.9	23	17	45	17	
2/16/2017							0.81
4/12/2017	2.2	1.9	23	16	39	14	
4/13/2017							0.88
6/27/2017	3.1 (D)	1.9 (D)	22 (D)	15 (D)	38 (D)	16 (D)	0.76 (D)
10/11/2017		2	23	16	44		
10/12/2017	1.2					17	1.1
6/6/2018	1.2	1.8	22				
6/7/2018				15	44	16	0.84
10/16/2018		1.8 (D)				16 (D)	
12/14/2018			21	16	37		
12/17/2018	4						0.94
4/1/2019	4.2	1.7	20	17	39	16	
4/2/2019							0.92
9/16/2019		1.9	23				
9/17/2019	0.79			17	38	17	1
3/25/2020	2.9	2					
3/26/2020			22				
3/27/2020				18	41	17	1.5



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	34.8			13.2	28.7	21.9	27.6
5/13/2016		56.9	35.3				
6/29/2016	33.1		34.6	15.8	27.9	21.8	25.6
6/30/2016		46.4					
8/18/2016	35						
8/19/2016						22	29
8/22/2016		48	38	15	30		
10/18/2016			36	14	30	23	32
10/19/2016	38.5 (D)	51					
12/7/2016	39	50			29	23	30
12/8/2016			36	11			
2/15/2017	44						32
2/16/2017		51	41	14	31	27	
4/13/2017	45	35	39	17	32	27	31
6/27/2017	42 (D)						
6/28/2017		36 (D)	36 (D)	15 (D)	29 (D)	25 (D)	27 (D)
10/12/2017	48	43	39	17	31	27	31
6/7/2018	49			11	29	26	25
6/8/2018		90	37				
10/18/2018		100 (D)		12 (D)			
12/14/2018	46						
12/17/2018			42		29	28	24
4/2/2019	46	89	38	14	27	26	23
9/17/2019	51	87	44	14	30		
9/18/2019						27	26
3/23/2020			46	13	36		
3/24/2020	58					31	22
3/26/2020		81					

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	8.7	27.2	47.6	53.1
6/27/2016	7.48	27.9	47	
6/29/2016				52.6
8/17/2016	8	23	45	
8/22/2016				57
10/17/2016	8.6		47	
10/18/2016		24		53
12/6/2016	8.2	23	45	
12/7/2016				47
2/14/2017	7.2	24	49	
2/16/2017				55
4/12/2017	6.7	25	50	
4/13/2017				56
6/27/2017	6.2 (D)	23 (D)	50 (D)	53 (D)
10/11/2017	6.5	22		
10/12/2017			51	55
6/6/2018	4.2	19	51	54
12/14/2018	6.5	16	46	
12/17/2018				55
4/1/2019		18	45	50
4/2/2019	6.7			
9/16/2019	8.9			56
9/17/2019		16	52	
3/25/2020	11		48	55
3/26/2020		21		

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	1.9	1.51	1.94	2.77	3.45		1.98
5/11/2016						1.93	
6/23/2016	2.2	1.8	2.2				2.1
6/24/2016					3.5	1.8	
6/27/2016				2.9			
8/16/2016	2.1	1.5	2		3.4		1.8
8/17/2016				2.4		1.4	
10/13/2016	2		1.9				
10/14/2016		1.4		2.1	3.1		1.8
10/17/2016						1.2	
12/5/2016			1.9				
12/6/2016	2.2	1.5		1.7	3	1.3	1.8
2/14/2017	2	1.5	1.9	1.5	2.4	1.3	1.8
4/10/2017			1.8				
4/11/2017	1.8	1.3		1.7	2.5	1.2	1.7
6/26/2017	1.9	1.4	1.9		2.6	1.2	1.7
6/27/2017				2.2			
10/10/2017	1.8	1.3	1.8				
10/11/2017				1.7	2.4	1.1	1.6
6/5/2018	1.7	1.3	1.9	2			1.6
6/6/2018					2	1.1	
12/13/2018	1.7	1.3	2	1.9	2	1.2	1.7
3/28/2019				2.2	2	1.2	1.7
3/29/2019	1.5	1.2	1.8				
9/12/2019							1.5
9/13/2019			1.7				
9/16/2019	1.8	1.3		1.9	2.2	1.2	
3/17/2020		1.6		2.4	2.1		1.9
3/18/2020	2		2.4			1.5	

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	9.53	8.87	9.04				
5/12/2016				6.29	11.1	9.47	8.56
6/28/2016	9.1	8.3	8.8	5.4	10	9.8	7.8
8/17/2016	9.4	8.6					
8/18/2016			9.3	5.8	11	10	8.5
10/17/2016	8.9	7.9	8.3	5.4	11		
10/18/2016						9.4	8
12/6/2016	8.9	7.9	8.9	5.6			
12/7/2016					11	9.8	8
2/15/2017	9	7.2	8.7	5.4	11	9.8	
2/16/2017							7.7
4/12/2017	8.5	7.5	8.6	5.6	10	9.2	
4/13/2017							7.5
6/27/2017	9.1	7.8	9.3	5.9	11	9.5	8
10/11/2017		7.4	8.8	5.7	10		
10/12/2017	8.5					9.2	7.6
6/6/2018	8.6	7.5	8.8				
6/7/2018				6.2	10	9.3	7.7
10/16/2018		7.8 (D)				10 (D)	
12/14/2018			9.1	7.5	10		
12/17/2018	8.6						8.1
4/1/2019	7.8	7.4	9	7.7	9.9	9.2	
4/2/2019							8.2
9/16/2019		7.9	9.3				
9/17/2019	9.7			8.4	11	10	8.4
3/25/2020	8.8	9					
3/26/2020			9.4				
3/27/2020				9	11	10	8.5

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	9.11			10.8	7.93	10.6	9.63
5/13/2016		4.87	8.16				
6/29/2016	8.3		7.6	11	7.7	9.7	8.8
6/30/2016		4.7					
8/18/2016	8.8						
8/19/2016						11	9.6
8/22/2016		5	8.2	11	7.9		
10/18/2016			7.7	10	7.1	10	9.6
10/19/2016	8.3 (D)	5.1					
12/7/2016	8.4	5.6			7.7	10	9.7
12/8/2016			7.8	9.7			
2/15/2017	8.1						10
2/16/2017		7.4	7.4	9.8	7.4	9.8	
4/13/2017	7.9	8.9	7.5	10	7.4	9.6	9
6/27/2017	8.3						
6/28/2017		10	7.9	12	8.1	10	9.6
10/12/2017	8	7.4	7.4	11	8.1	9.7	9.3
6/7/2018	8			9.9	8.6	10	10
6/8/2018		9	7.2				
10/18/2018		16 (D)		11 (D)			
12/14/2018	8.1						
12/17/2018			7.3		9.3	10	9.9
4/2/2019	8.2	15	7.3	11	9.3	10	8.9
9/17/2019	8.3	13	7.4	11	10		
9/18/2019						10	9.7
3/23/2020			7.7	10	11		
3/24/2020	7.8					10	9.1
3/26/2020		12					

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	2.44	9.65	12.6	9.29
6/27/2016	2.5	6.7	13	
6/29/2016				9
8/17/2016	2.4	6.4	14	
8/22/2016				9.7
10/17/2016	2.3		12	
10/18/2016		5.9		9.4
12/6/2016	2.3	5.9	12	
12/7/2016				11
2/14/2017	1.9	5.8	12	
2/16/2017				9.5
4/12/2017	1.6	5.6	11	
4/13/2017				8.7
6/27/2017	1.6	5.7	12	9.9
10/11/2017	1.6	5		
10/12/2017			11	11
6/6/2018	1.3	4.6	11	12
12/14/2018	1.8	4.2	11	
12/17/2018				13
4/1/2019		4.6	10	13
4/2/2019	2			
9/16/2019	1.9			14
9/17/2019		3.8	12	
3/25/2020	2.3		10	15
3/26/2020		5.1		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.002	0.0142	0.00393 (J)	<0.002	0.00634 (J)		<0.002
5/11/2016						0.00217 (J)	
6/23/2016	<0.002	0.0118	0.0027 (J)				<0.002
6/24/2016					0.0053 (J)	0.0015 (J)	
6/27/2016				<0.002			
8/16/2016	<0.002	0.0099	0.0038		0.0071		<0.002
8/17/2016				<0.002		0.0011 (J)	
10/13/2016	<0.002		0.0031				
10/14/2016		0.0045		<0.002	0.0067		0.0012 (J)
10/17/2016						0.0032	
12/5/2016			0.0027				
12/6/2016	<0.002	0.0043		<0.002	0.0063	0.0028	<0.002
2/14/2017	<0.002	0.014	0.0037	<0.002	0.0076	0.0046	<0.002
4/10/2017			0.0037				
4/11/2017	<0.002	0.014		<0.002	0.0098	0.005	<0.002
6/26/2017	<0.002	0.014	0.0047		0.012	0.0061	0.0021 (J)
6/27/2017				<0.002			
3/26/2018	<0.002	0.013	0.0042		0.012		
3/27/2018				<0.002		0.0058	<0.002
6/5/2018	0.0014 (J)	0.014	0.0046	<0.002			<0.002
6/6/2018					0.015	0.0048	
10/5/2018	0.0014 (J)	0.016	0.0058		0.015		
10/8/2018				<0.002		0.0098	0.0011 (J)
2/18/2019	0.0017 (J)	0.012				0.0059	
2/19/2019			0.0038	<0.002	0.014		<0.002
3/28/2019				<0.002	0.013	0.0046	<0.002
3/29/2019	0.0017 (J)	0.014	0.0043				
9/12/2019							0.0023 (J)
9/13/2019			0.0056				
9/16/2019	0.0017 (J)	0.014		0.0015 (J)	0.019	0.0064	
2/13/2020	<0.002	0.011	0.0036				
2/17/2020				<0.002			<0.002
2/18/2020					0.02	0.0062	
3/17/2020		0.014		<0.002	0.018		<0.002
3/18/2020	0.0024		0.0047			0.0047	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.002	<0.002	<0.002				
5/12/2016				<0.002	<0.002	0.0335	0.00943 (J)
6/28/2016	<0.002	<0.002	<0.002	<0.002	0.0008 (J)	0.0339	0.0093 (J)
8/17/2016	<0.002	<0.002					
8/18/2016			<0.002	<0.002	<0.002	0.034	0.0085
10/17/2016	<0.002	<0.002	0.0023 (J)	<0.002	0.0012 (J)		
10/18/2016						0.033	0.0088
12/6/2016	<0.002	<0.002	<0.002	<0.002			
12/7/2016					0.0012 (J)	0.032	0.0079
2/15/2017	<0.002	<0.002	<0.002	<0.002	<0.002	0.03	
2/16/2017							0.0097
4/12/2017	<0.002	<0.002	<0.002	<0.002	<0.002	0.035	
4/13/2017							0.0098
6/27/2017	<0.002	<0.002	<0.002	<0.002	<0.002	0.035	0.0096
3/27/2018	<0.002	<0.002	<0.002	<0.002	<0.002	0.031	0.0098
6/6/2018	<0.002	<0.002	<0.002				
6/7/2018				<0.002	<0.002	0.032	0.01
10/8/2018			<0.002	<0.002	<0.002		0.013
10/9/2018	<0.002						
10/16/2018		<0.002 (D)				0.032 (D)	
2/20/2019	<0.002	<0.002	<0.002	<0.002	0.0016 (J)	0.038	0.013
4/1/2019	<0.002	<0.002	<0.002	<0.002	<0.002	0.032	
4/2/2019							0.01
9/16/2019		<0.002	<0.002				
9/17/2019	<0.002			0.0017 (J)	0.0026	0.037	0.013
2/18/2020		<0.002					
2/19/2020	<0.002		<0.002	<0.002	<0.002	0.038	0.014
3/25/2020	<0.002	<0.002					
3/26/2020			<0.002				
3/27/2020				<0.002	0.0019 (J)	0.034	0.011



# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.0077 (J)			<0.002	<0.002	<0.002	<0.002
5/13/2016		0.00771 (J)	0.0151				
6/29/2016	0.0036 (J)		0.0141	0.0009 (J)	0.0012 (J)	0.0007 (J)	0.0013 (J)
6/30/2016		0.007 (J)					
8/18/2016	0.0027						
8/19/2016						<0.002	<0.002
8/22/2016		0.007	0.015	<0.002	<0.002		
10/18/2016			0.013	<0.002	<0.002	<0.002	<0.002
10/19/2016	0.00335 (D)	0.0064					
12/7/2016	0.0027	0.0063			<0.002	<0.002	<0.002
12/8/2016			0.013	<0.002			
2/15/2017	0.0044						<0.002
2/16/2017		0.007	0.015	<0.002	<0.002	<0.002	
4/13/2017	0.0047	0.0061	0.016	<0.002	<0.002	<0.002	0.0014 (J)
6/27/2017	0.0029						
6/28/2017		0.0059	0.016	<0.002	<0.002	<0.002	0.0025
3/27/2018	0.0045						0.0012 (J)
3/28/2018		0.0082	0.014	<0.002	<0.002	<0.002	
6/7/2018	0.0083			<0.002	<0.002	<0.002	<0.002
6/8/2018		0.0086	0.015				
10/8/2018	0.0055				<0.002	0.0012 (J)	0.0017 (J)
10/9/2018			0.017				
10/18/2018		0.009 (D)		<0.002 (D)			
2/19/2019						<0.002	<0.002
2/20/2019	0.0061	0.011	0.017	<0.002	0.0015 (J)		
4/2/2019	0.004	0.0092	0.014	<0.002	<0.002	0.0012 (J)	0.0011 (J)
9/17/2019	0.0078	0.011	0.017	0.0022 (J)	0.0016 (J)		
9/18/2019						0.0024 (J)	0.0024 (J)
2/18/2020				<0.002	<0.002	0.0015 (J)	<0.002
2/19/2020	0.0045		0.017				
2/20/2020		0.011					
3/23/2020			0.015	<0.002	<0.002		
3/24/2020	0.0079					<0.002	<0.002
3/26/2020		0.0096					

# Time Series

Constituent: Chromium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.002	<0.002	<0.002	<0.002
6/27/2016	<0.002	<0.002	<0.002	
6/29/2016				<0.002
8/17/2016	<0.002	<0.002	<0.002	
8/22/2016				<0.002
10/17/2016	<0.002		<0.002	
10/18/2016		<0.002		<0.002
12/6/2016	<0.002	<0.002	<0.002	
12/7/2016				<0.002
2/14/2017	<0.002	<0.002	<0.002	
2/16/2017				<0.002
4/12/2017	<0.002	<0.002	0.0011 (J)	
4/13/2017				<0.002
6/27/2017	<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002	<0.002	0.0012 (J)	
3/28/2018				<0.002
6/6/2018	<0.002	<0.002	0.0013 (J)	<0.002
10/8/2018	<0.002			
10/9/2018		<0.002	0.0016 (J)	<0.002
2/20/2019	<0.002	<0.002	0.0021 (J)	<0.002
4/1/2019		<0.002	0.0013 (J)	<0.002
4/2/2019	<0.002			
9/16/2019	<0.002			<0.002
9/17/2019		<0.002	0.0031	
2/18/2020	<0.002	<0.002	0.0015 (J)	
2/19/2020				<0.002
3/25/2020	<0.002		<0.002	<0.002
3/26/2020		<0.002		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.0184	<0.0025	<0.0025	0.0132	<0.0025		<0.0025
5/11/2016						<0.0025	
6/23/2016	0.0168	0.0004 (J)	0.0004 (J)				<0.0025
6/24/2016					<0.0025	<0.0025	
6/27/2016				0.0099 (J)			
8/16/2016	0.016	<0.0025	<0.0025		0.00051 (J)		<0.0025
8/17/2016				0.01		0.00041 (J)	
10/13/2016	0.02		0.0004 (J)				
10/14/2016		<0.0025		0.013	<0.0025		<0.0025
10/17/2016						<0.0025	
12/5/2016			<0.0025				
12/6/2016	0.016	<0.0025		0.016	<0.0025	<0.0025	<0.0025
2/14/2017	0.011	<0.0025	<0.0025	0.018	<0.0025	<0.0025	<0.0025
4/10/2017			<0.0025				
4/11/2017	0.0098	<0.0025		0.015	<0.0025	<0.0025	<0.0025
6/26/2017	0.01	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
6/27/2017				0.0088			
3/26/2018	0.0065	<0.0025	<0.0025		<0.0025		
3/27/2018				0.014		<0.0025	<0.0025
6/5/2018	0.0028	<0.0025	<0.0025	0.0095			<0.0025
6/6/2018					<0.0025	<0.0025	
10/5/2018	0.00075 (J)	<0.0025	0.00058 (J)		<0.0025		
10/8/2018				0.0047		<0.0025	<0.0025
2/18/2019	0.0008 (J)	<0.0025				<0.0025	
2/19/2019			<0.0025	0.005	<0.0025		<0.0025
3/28/2019				0.0042	<0.0025	<0.0025	<0.0025
3/29/2019	0.00072 (J)	<0.0025	<0.0025				
9/12/2019							<0.0025
9/13/2019			0.00018 (J)				
9/16/2019	0.0014 (J)	<0.0025		0.0045	<0.0025	<0.0025	
2/13/2020	0.0014 (J)	<0.0025	<0.0025				
2/17/2020				0.0044			<0.0025
2/18/2020					<0.0025	<0.0025	
3/17/2020		<0.0025		0.0039	<0.0025		<0.0025
3/18/2020	0.0021 (J)		0.00016 (J)			0.00032 (J)	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.0191	0.0378	0.00648 (J)				
5/12/2016				0.0145	0.00605 (J)	0.267	0.00303 (J)
6/28/2016	0.0192	0.0332	0.0051 (J)	0.011	0.0115	0.255	0.0029 (J)
8/17/2016	0.022	0.03					
8/18/2016			0.0035	0.0099	0.011	0.26	0.0029
10/17/2016	0.05	0.032	0.003	0.01	0.017		
10/18/2016						0.28	0.0034
12/6/2016	0.04	0.029	0.0036	0.0079			
12/7/2016					0.0043	0.26	0.003
2/15/2017	0.038	0.029	0.004	0.0073	0.0059	0.24	
2/16/2017							0.0033
4/12/2017	0.018	0.028	0.0039	0.0078	0.017	0.28	
4/13/2017							0.0034
6/27/2017	0.014	0.029	0.0042	0.0068	0.013	0.29	0.0037
3/27/2018	0.026	0.024	0.0035	0.0035	0.0083	0.27	0.0037
6/6/2018	0.018	0.026	0.0038				
6/7/2018				0.0039	0.0025	0.3	0.0037
10/8/2018			0.0037	0.0036	0.0071		0.0044
10/9/2018	0.03						
10/16/2018		0.023 (D)				0.27 (D)	
2/20/2019	0.034	0.024	0.0032	0.004	0.011	0.26	0.0038
4/1/2019	0.025	0.021	0.0029	0.003	0.014	0.26	
4/2/2019							0.0041
9/16/2019		0.022	0.003				
9/17/2019	0.022			0.0024 (J)	0.0096	0.27	0.0042
2/18/2020		0.018					
2/19/2020	0.027		0.0027	0.0018 (J)	0.0099	0.28	0.0047
3/25/2020	0.029	0.024					
3/26/2020			0.0024 (J)				
3/27/2020				0.002 (J)	0.0093	0.28	0.0047

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.0025			0.261	<0.0025	0.00619 (J)	<0.0025
5/13/2016		0.116	<0.0025				
6/29/2016	0.0007 (J)		0.0006 (J)	0.23	<0.0025	0.0051 (J)	<0.0025
6/30/2016		0.112					
8/18/2016	0.00078 (J)						
8/19/2016						0.0045	<0.0025
8/22/2016		0.13	0.00066 (J)	0.25	<0.0025		
10/18/2016			0.00095 (J)	0.26	<0.0025	0.0043	<0.0025
10/19/2016	0.000845 (JD)	0.14					
12/7/2016	0.00056 (J)	0.11			<0.0025	0.0034	<0.0025
12/8/2016			0.00078 (J)	0.26			
2/15/2017	0.00069 (J)						<0.0025
2/16/2017		0.11	0.00049 (J)	0.23	<0.0025	0.0031	
4/13/2017	0.00049 (J)	0.094	<0.0025	0.19	<0.0025	0.0031	<0.0025
6/27/2017	0.00041 (J)						
6/28/2017		0.085	<0.0025	0.19	<0.0025	0.0029	<0.0025
3/27/2018	<0.0025						<0.0025
3/28/2018		0.16	<0.0025	0.18	<0.0025	0.0022 (J)	
6/7/2018	<0.0025			0.21	<0.0025	0.0022 (J)	<0.0025
6/8/2018		0.19	<0.0025				
10/8/2018	0.00046 (J)				<0.0025	0.0021 (J)	<0.0025
10/9/2018			<0.0025				
10/18/2018		0.21 (D)		0.16 (D)			
2/19/2019						0.0018 (J)	<0.0025
2/20/2019	0.00035 (J)	0.19	0.00012 (J)	0.18	0.00011 (J)		
4/2/2019	<0.0025	0.18	<0.0025	0.13	<0.0025	0.0018 (J)	<0.0025
9/17/2019	0.00048 (J)	0.16	0.00013 (J)	0.13	8.7E-05 (J)		
9/18/2019						0.002 (J)	0.00013 (J)
2/18/2020				0.12	0.00014 (J)	0.0018 (J)	<0.0025
2/19/2020	0.00034 (J)		0.00015 (J)				
2/20/2020		0.14					
3/23/2020			<0.0025	0.22	0.00016 (J)		
3/24/2020	0.00044 (J)					0.0016 (J)	<0.0025
3/26/2020		0.15					

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.0025	0.0116	0.00265 (J)	0.0156
6/27/2016	0.002 (J)	0.0143	0.0012 (J)	
6/29/2016				0.0147
8/17/2016	0.0018 (J)	0.012	0.00049 (J)	
8/22/2016				0.017
10/17/2016	0.0016 (J)		<0.0025	
10/18/2016		0.0099		0.017
12/6/2016	0.0012 (J)	0.011	<0.0025	
12/7/2016				0.014
2/14/2017	0.0022 (J)	0.0093	<0.0025	
2/16/2017				0.014
4/12/2017	0.0023 (J)	0.0062	<0.0025	
4/13/2017				0.014
6/27/2017	0.0045	0.021	<0.0025	0.013
3/27/2018	0.004	0.0054	<0.0025	
3/28/2018				0.0087
6/6/2018	0.0021 (J)	0.0034	<0.0025	0.0064
10/8/2018	<0.0025			
10/9/2018		0.013	<0.0025	0.0049
2/20/2019	0.00011 (J)	0.0057	0.00014 (J)	0.01
4/1/2019		0.0046	<0.0025	0.01
4/2/2019	<0.0025			
9/16/2019	0.00013 (J)			0.001 (J)
9/17/2019		0.0039	0.00013 (J)	
2/18/2020	<0.0025	0.0067	<0.0025	
2/19/2020				0.0082
3/25/2020	0.00027 (J)		0.00032 (J)	0.0064
3/26/2020		0.0033		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.275 (U)	0.441	0.31 (U)	-0.013 (U)	0.188 (U)		0.338 (U)
5/11/2016						0.284 (U)	
6/23/2016	0.077 (U)	0.155 (U)	0.455 (U)				0.358 (U)
6/24/2016					1.2	0.974	
6/27/2016				0.667 (U)			
8/16/2016	0.13 (U)	0.621	0.162 (U)		0.168 (U)		0.224 (U)
8/17/2016				0.148 (U)		0.202 (U)	
10/13/2016	0.309 (U)		0.327 (U)				
10/14/2016		0.765		0.448 (U)	0.345 (U)		0.999
10/17/2016						0.114 (U)	
12/5/2016			0.233 (U)				
12/6/2016	0.346 (U)	0.29 (U)		0.51	0.221 (U)	0.251 (U)	0.387 (U)
2/14/2017	0.352 (U)	0.111 (U)	0.237 (U)	0.302 (U)	-0.026 (U)	-0.0166 (U)	0.207 (U)
4/10/2017			0.00056 (U)				
4/11/2017	0.274 (U)	0.195 (U)		-0.0184 (U)	0.135 (U)	-0.168 (U)	0.219 (U)
6/26/2017	0.36	0.0975 (U)	-0.257 (U)		0.332 (U)	0.184 (U)	0.151 (U)
6/27/2017				-0.0536 (U)			
3/26/2018	0.522	0.124 (U)	0.141 (U)		0.226 (U)		
3/27/2018				0.207 (U)		0.164 (U)	0.252 (U)
6/5/2018	0.106 (U)	0.0496 (U)	0.163 (U)	-0.0364 (U)			0.255 (U)
6/6/2018					0.175 (U)	0.308	
10/5/2018	0.522	0.474	0.568		0.5		
10/8/2018				0.478		-0.0974 (U)	0.764
2/18/2019	0.362	0.25 (U)				0.0112 (U)	
2/19/2019			0.14 (U)	0.32 (U)	0.231 (U)		0.044 (U)
3/28/2019				0.0254 (U)	0.31 (U)	0.0974 (U)	0.115 (U)
3/29/2019	0.311 (U)	-0.0232 (U)	0.0992 (U)				
9/12/2019							0.102 (U)
9/13/2019			0.339 (U)				
9/16/2019	0.157 (U)	-0.245 (U)		-0.0172 (UR)	0.333 (U)	0.0843 (U)	
2/13/2020	0.152 (U)	0.205 (U)	0.287 (U)				
2/17/2020				-0.0319 (U)			-0.0291 (U)
2/18/2020					0.313 (U)	0.199 (U)	
3/17/2020		0.582 (U)		0.436 (U)	-0.0428 (U)		-0.196 (U)
3/18/2020	0.21 (U)		0.536			0.226 (U)	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.26 (U)	0.182 (U)	0.433				
5/12/2016				0.0531 (U)	0.106 (U)	0.344 (U)	0.0196 (U)
6/28/2016	1.57	0.858	0.435 (U)	0.483 (U)	0.735 (U)	0.256 (U)	0.418 (U)
8/17/2016	0.548 (U)	0.367 (U)					
8/18/2016			0.214 (U)	0.286 (U)	0.212 (U)	0.503 (U)	0.199 (U)
10/17/2016	-0.0725 (U)	0.551	0.316 (U)	0.472	-0.187 (U)		
10/18/2016						0.171 (U)	0.0404 (U)
12/6/2016	0.496	0.438	0.0575 (U)	0.903			
12/7/2016					0.701	0.375 (U)	0.426
2/15/2017	0.321 (U)	-0.0831 (U)	-0.0321 (U)	-0.223 (U)	0.155 (U)	0.0801 (U)	
2/16/2017							0.163 (U)
4/12/2017	-0.0397 (U)	0.343 (U)	0.00949 (U)	0.21 (U)	0.233 (U)	0.197 (U)	
4/13/2017							0.0522 (U)
6/27/2017	0.47	0.369	0.183 (U)	0.0574 (U)	0.302	0.0274 (U)	0.222 (U)
3/27/2018	0.136 (U)	0.172 (U)	0.445	0.145 (U)	0.306 (U)	0.285 (U)	0.387 (U)
6/6/2018	0.123 (U)	0.153 (U)	0.0775 (U)				
6/7/2018				0.235 (U)	0.211 (U)	0.64	0.283 (U)
10/8/2018			0.865	0.64	0.636		0.799
10/9/2018	0.387						
10/16/2018		1.06 (D)				0.731 (D)	
2/20/2019	0.0159 (U)	0.708	0.161 (U)	0.222 (U)	0.147 (U)	0.573	0.0684 (U)
4/1/2019	0.452	0.173 (U)	0.372	0.36	-0.138 (U)	0.0499 (U)	
4/2/2019							0.167 (U)
9/16/2019		0.251 (U)	0.569 (U)				
9/17/2019	0.226 (U)			0.143 (U)	0.264 (U)	0.441 (U)	0.558
2/18/2020		0.203 (U)					
2/19/2020	0.0222 (U)		0.166 (U)	0.218 (U)	0.0061 (U)	0.415 (U)	0.0321 (U)
3/25/2020	0.253 (U)	0.204 (U)					
3/26/2020			0.604				
3/27/2020				0.235 (U)	0.206 (U)	0.39 (U)	0.305 (U)



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.134 (U)			0.556	0.216 (U)	0.285 (U)	0.801
5/13/2016		0.103 (U)	-0.115 (U)				
6/29/2016	0.391 (U)		0.396 (U)	0.162 (U)	0.253 (U)	1.1	0.423 (U)
6/30/2016		0.593 (U)					
8/18/2016	0.498 (U)						
8/19/2016						0.367 (U)	0.869
8/22/2016		0.17 (U)	-0.102 (U)	0.433 (U)	0.115 (U)		
10/18/2016			0.352 (U)	0.741	0.593	0.276 (U)	0.881
10/19/2016	0.639	0.433					
12/7/2016	0.239 (U)	0.435 (U)			0.897	0.318 (U)	0.455
12/8/2016			0.431 (U)	1.06			
2/15/2017	0.175 (U)						0.635
2/16/2017		0.101 (U)	0.146 (U)	0.382 (U)	0.132 (U)	0.168 (U)	
4/13/2017	-0.00846 (U)	-0.0014 (U)	0.127 (U)	0.189 (U)	0.287 (U)	0.3 (U)	0.413
6/27/2017	0.186 (U)						
6/28/2017		0.512	0.11 (U)	0.84	0.143 (U)	0.0844 (U)	0.331 (U)
3/27/2018	0.249 (U)						0.61
3/28/2018		0.428	0.247 (U)	0.334 (U)	0.38	0.0661 (U)	
6/7/2018	0.172 (U)			0.235 (U)	0.514	0.222 (U)	0.64
6/8/2018		0.32 (U)	0.0462 (U)				
10/8/2018	0.682				0.374	0.499	0.437
10/9/2018			0.584				
10/18/2018		0.304 (UD)		0.399 (D)			
2/19/2019						0.532	0.301 (U)
2/20/2019	0.278 (U)	0.139 (U)	0.114 (U)	0.353	0.239 (U)		
4/2/2019	-0.0476 (U)	0.336 (U)	0.11 (U)	0.271 (U)	0.218 (U)	0.313 (U)	0.516
9/17/2019	0.235 (U)	0.449	0.302 (U)	0.591	-0.04 (U)		
9/18/2019						0.101 (U)	0.285 (U)
2/18/2020				0.474	0.287 (U)	0.0109 (U)	0.399
2/19/2020	0.217 (U)		0.308 (U)				
2/20/2020		0.22 (U)					
3/23/2020			0.171 (U)	0.258 (U)	0.384		
3/24/2020	0.426					0.188 (U)	0.183 (U)
3/26/2020		0.366 (U)					

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	0.0394 (U)	0.214 (U)	2.05	0.134 (U)
6/27/2016	0.624 (U)	0.581 (U)	2.9	
6/29/2016				0.665 (U)
8/17/2016	0.572	0.665	2.57	
8/22/2016				0.391 (U)
10/17/2016	0.307 (U)		2.08	
10/18/2016		0.453		0.521
12/6/2016	0.122 (U)	0.368 (U)	2.25	
12/7/2016				0.367 (U)
2/14/2017	0.166 (U)	0.328 (U)	1.77	
2/16/2017				0.076 (U)
4/12/2017	0.355 (U)	0.206 (U)	2.72	
4/13/2017				0.239 (U)
6/27/2017	0.0783 (U)	0.598	2.07	0.268 (U)
3/27/2018	0.0443 (U)	0.546	2.3	
3/28/2018				0.378
6/6/2018	0.127 (U)	0.165 (U)	1.59	-0.0272 (U)
10/8/2018	0.77			
10/9/2018		0.385	3.01	0.565
2/20/2019	0.25 (U)	0.433	2.5	0.425
4/1/2019		0.675	1.91	-0.0113 (U)
4/2/2019	0.3 (U)			
9/16/2019	0.0805 (U)			-0.116 (U)
9/17/2019		0.341 (U)	2.04	
2/18/2020	-0.0675 (U)	0.326 (U)	2.06	
2/19/2020				0.0604 (U)
3/25/2020	0.411 (U)		2.99	0.206 (U)
3/26/2020		0.151 (U)		

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.1	0.0537 (J)	0.0648 (J)	0.041 (J)	0.0192 (J)		0.0188 (J)
5/11/2016						0.108 (J)	
6/23/2016	<0.1	0.03 (J)	0.05 (J)				<0.1
6/24/2016					0.02 (J)	0.08 (J)	
6/27/2016				0.03 (J)			
8/16/2016	<0.1	<0.1	<0.1		<0.1		<0.1
8/17/2016				<0.1		<0.1	
10/13/2016	<0.1		<0.1				
10/14/2016		<0.1		<0.1	<0.1		<0.1
10/17/2016						<0.1	
12/5/2016			<0.1				
12/6/2016	<0.1	<0.1		<0.1	<0.1	0.091 (J)	<0.1
2/14/2017	<0.1	<0.1	<0.1	<0.1	<0.1	0.1 (J)	<0.1
4/10/2017			<0.1				
4/11/2017	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
6/26/2017	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1
6/27/2017				<0.1			
10/10/2017	<0.1	<0.1	<0.1				
10/11/2017				<0.1	<0.1	<0.1	<0.1
3/26/2018	<0.1	<0.1	<0.1		<0.1		
3/27/2018				<0.1		<0.1	<0.1
6/5/2018	<0.1	<0.1	<0.1	<0.1			<0.1
6/6/2018					<0.1	<0.1	
10/5/2018	<0.1	<0.1	<0.1		<0.1		
10/8/2018				<0.1		<0.1	<0.1
2/18/2019	<0.1	0.05 (J)				0.066 (J)	
2/19/2019			0.06 (J)	0.044 (J)	<0.1		<0.1
3/28/2019				0.037 (J)	0.026 (J)	0.052 (J)	<0.1
3/29/2019	<0.1	0.053 (J)	0.056 (J)				
9/12/2019							<0.1
9/13/2019			0.049 (J)				
9/16/2019	<0.1	0.054 (J)		0.04 (J)	0.026 (J)	0.055 (J)	
2/13/2020	<0.1	0.051 (J)	0.066 (J)				
2/17/2020				0.041 (J)			<0.1
2/18/2020					<0.1	0.068 (J)	
3/17/2020		0.038 (J)		0.041 (J)	0.029 (J)		0.03 (J)
3/18/2020	<0.1		0.078 (J)			<0.1	

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.019 (J)	0.033 (J)	0.11 (J)				
5/12/2016				0.042 (J)	0.031 (J)	0.1071 (J)	0.011 (J)
6/28/2016	<0.1	0.08 (J)	0.18 (J)	0.15 (J)	0.03 (J)	0.26 (J)	0.09 (J)
8/17/2016	<0.1	<0.1					
8/18/2016			0.12 (J)	<0.1	<0.1	0.14 (J)	<0.1
10/17/2016	<0.1	<0.1	0.082 (J)	<0.1	<0.1		
10/18/2016						0.12 (J)	<0.1
12/6/2016	<0.1	<0.1	0.11 (J)	<0.1			
12/7/2016					<0.1	0.13 (J)	<0.1
2/15/2017	<0.1	<0.1	0.13 (J)	<0.1	<0.1	0.12 (J)	
2/16/2017							<0.1
4/12/2017	<0.1	<0.1	0.088 (J)	<0.1	<0.1	0.11 (J)	
4/13/2017							<0.1
6/27/2017	<0.1	<0.1	0.1 (J)	<0.1	<0.1	0.13 (J)	<0.1
10/11/2017		<0.1	<0.1	<0.1	<0.1		
10/12/2017	<0.1					0.13 (J)	<0.1
3/27/2018	<0.1	<0.1	<0.1	<0.1	<0.1	0.12 (J)	<0.1
6/6/2018	<0.1	<0.1	<0.1				
6/7/2018				<0.1	<0.1	0.14 (J)	<0.1
10/8/2018			<0.1	<0.1	<0.1		<0.1
10/9/2018	<0.1						
10/16/2018		<0.1 (D)				0.14 (JD)	
2/20/2019	<0.1	<0.1	0.052 (J)	<0.1	<0.1	0.33	<0.1
4/1/2019	<0.1	<0.1	0.048 (J)	<0.1	<0.1	0.072 (J)	
4/2/2019							<0.1
9/16/2019		<0.1	0.065 (J)				
9/17/2019	<0.1			0.04 (J)	0.028 (J)	0.1	<0.1
2/18/2020		<0.1					
2/19/2020	<0.1		0.064 (J)	0.027 (J)	0.026 (J)	0.13	<0.1
3/25/2020	0.031 (J)	0.058 (J)					
3/26/2020			0.081 (J)				
3/27/2020				0.045 (J)	0.041 (J)	0.13	0.027 (J)

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.066 (J)			0.259 (J)	0.079 (J)	0.029 (J)	0.0341 (J)
5/13/2016		0.0343 (J)	0.0126 (J)				
6/29/2016	0.17 (J)		0.18 (J)	0.45	0.15 (J)	0.04 (J)	0.04 (J)
6/30/2016		0.18 (J)					
8/18/2016	<0.1						
8/19/2016						<0.1	<0.1
8/22/2016		<0.1	<0.1	0.33	0.083 (J)		
10/18/2016			<0.1	0.26	<0.1	<0.1	<0.1
10/19/2016	<0.1 (D)	<0.1					
12/7/2016	<0.1	<0.1			<0.1	<0.1	<0.1
12/8/2016			<0.1	0.28			
2/15/2017	0.089 (J)						0.092 (J)
2/16/2017		<0.1	<0.1	0.28	0.12 (J)	0.1 (J)	
4/13/2017	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
6/27/2017	<0.1						
6/28/2017		<0.1	<0.1	0.22	0.1 (J)	<0.1	<0.1
10/12/2017	<0.1	<0.1	<0.1	0.18 (J)	<0.1	<0.1	<0.1
3/27/2018	<0.1						<0.1
3/28/2018		<0.1	<0.1	0.19 (J)	<0.1	<0.1	
6/7/2018	<0.1			0.21	<0.1	<0.1	<0.1
6/8/2018		<0.1	<0.1				
10/8/2018	<0.1				<0.1	<0.1	<0.1
10/9/2018			<0.1				
10/18/2018		<0.1 (D)		0.23 (D)			
2/19/2019						<0.1	0.055 (J)
2/20/2019	0.034 (J)	<0.1	<0.1	0.2	0.051 (J)		
4/2/2019	0.045 (J)	0.05 (J)	<0.1	0.15 (J)	0.066 (J)	<0.1	0.036 (J)
9/17/2019	0.047 (J)	0.034 (J)	<0.1	0.14	0.077 (J)		
9/18/2019						0.028 (J)	0.044 (J)
2/18/2020				0.16	0.073 (J)	<0.1	0.082 (J)
2/19/2020	0.046 (J)		<0.1				
2/20/2020		<0.1					
3/23/2020			0.057 (J)	0.25	0.11		
3/24/2020	0.058 (J)					<0.1	0.081 (J)
3/26/2020		0.091 (J)					

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	0.133 (J)	0.245 (J)	0.362	0.076 (J)
6/27/2016	0.21 (J)	0.23 (J)	0.45	
6/29/2016				0.13 (J)
8/17/2016	0.14 (J)	0.22	0.54	
8/22/2016				<0.1
10/17/2016	0.11 (J)		0.51	
10/18/2016		0.24		<0.1
12/6/2016	0.14 (J)	0.26	0.58	
12/7/2016				<0.1
2/14/2017	0.2	0.17 (J)	0.39	
2/16/2017				0.097 (J)
4/12/2017	0.089 (J)	0.2	0.41	
4/13/2017				<0.1
6/27/2017	0.085 (J)	0.23	0.47	<0.1
10/11/2017	0.089 (J)	0.21		
10/12/2017			0.47	<0.1
3/27/2018	<0.1	0.19 (J)	0.4	
3/28/2018				<0.1
6/6/2018	<0.1	0.2	0.4	<0.1
10/8/2018	<0.1			
10/9/2018		0.2	0.47	<0.1
2/20/2019	0.092 (J)	0.2	0.32	0.074 (J)
4/1/2019		0.12 (J)	0.21	0.041 (J)
4/2/2019	0.1 (J)			
9/16/2019	0.099 (J)			0.057 (J)
9/17/2019		0.2	0.47	
2/18/2020	0.11	0.2	0.38	
2/19/2020				0.061 (J)
3/25/2020	0.13		0.31	0.079 (J)
3/26/2020		0.14		

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
5/11/2016						<0.001	
6/23/2016	<0.001	<0.001	0.0001 (J)				<0.001
6/24/2016					<0.001	<0.001	
6/27/2016				<0.001			
8/16/2016	<0.001	<0.001	<0.001		<0.001		<0.001
8/17/2016				<0.001		<0.001	
10/13/2016	<0.001		<0.001				
10/14/2016		<0.001		<0.001	<0.001		<0.001
10/17/2016						<0.001	
12/5/2016			<0.001				
12/6/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/14/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/10/2017			<0.001				
4/11/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
6/26/2017	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
6/27/2017				<0.001			
3/26/2018	<0.001	<0.001	<0.001		<0.001		
3/27/2018				<0.001		<0.001	<0.001
6/5/2018	<0.001	<0.001	<0.001	<0.001			<0.001
6/6/2018					<0.001	<0.001	
10/5/2018	<0.001	<0.001	<0.001		<0.001		
10/8/2018				<0.001		<0.001	<0.001
2/18/2019	<0.001	<0.001				<0.001	
2/19/2019			<0.001	<0.001	<0.001		<0.001
3/28/2019				<0.001	<0.001	<0.001	<0.001
3/29/2019	<0.001	<0.001	<0.001				
9/12/2019							<0.001
9/13/2019			0.00014 (J)				
9/16/2019	<0.001	<0.001		<0.001	0.00017 (J)	<0.001	
2/13/2020	<0.001	<0.001	<0.001				
2/17/2020				<0.001			<0.001
2/18/2020					<0.001	<0.001	
3/17/2020		<0.001		<0.001	<0.001		<0.001
3/18/2020	0.00022 (J)		0.00022 (J)			0.00021 (J)	

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.001	<0.001	<0.001				
5/12/2016				<0.001	<0.001	<0.001	<0.001
6/28/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/17/2016	<0.001	<0.001					
8/18/2016			<0.001	<0.001	<0.001	<0.001	<0.001
10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2016						<0.001	<0.001
12/6/2016	<0.001	<0.001	<0.001	<0.001			
12/7/2016					<0.001	<0.001	<0.001
2/15/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/16/2017							<0.001
4/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/13/2017							<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/27/2018	<0.001	<0.001	<0.001	0.00039 (J)	<0.001	<0.001	<0.001
6/6/2018	<0.001	<0.001	<0.001				
6/7/2018				<0.001	<0.001	<0.001	<0.001
10/8/2018			<0.001	<0.001	<0.001		<0.001
10/9/2018	<0.001						
10/16/2018		<0.001 (D)				<0.001 (D)	
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/2/2019							<0.001
9/16/2019		<0.001	<0.001				
9/17/2019	0.00013 (J)			<0.001	0.00016 (J)	<0.001	<0.001
2/18/2020		<0.001					
2/19/2020	0.00014 (J)		<0.001	<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001	<0.001					
3/26/2020			<0.001				
3/27/2020				<0.001	0.00066 (J)	0.00023 (J)	0.00013 (J)



# Time Series

Constituent: Lead (mg/L) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.001			<0.001	<0.001	<0.001	<0.001
5/13/2016		<0.001	<0.001				
6/29/2016	<0.001		<0.001	0.0005 (J)	9E-05 (J)	<0.001	9E-05 (J)
6/30/2016		<0.001					
8/18/2016	<0.001						
8/19/2016						<0.001	<0.001
8/22/2016		<0.001	<0.001	<0.001	<0.001		
10/18/2016			<0.001	<0.001	<0.001	<0.001	<0.001
10/19/2016	<0.001 (D)	<0.001					
12/7/2016	<0.001	<0.001			<0.001	<0.001	<0.001
12/8/2016			<0.001	<0.001			
2/15/2017	<0.001						<0.001
2/16/2017		<0.001	<0.001	0.00035 (J)	<0.001	<0.001	
4/13/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/27/2017	<0.001						
6/28/2017		<0.001	<0.001	0.00041 (J)	<0.001	<0.001	<0.001
3/27/2018	<0.001						<0.001
3/28/2018		<0.001	<0.001	<0.001	<0.001	<0.001	
6/7/2018	<0.001			<0.001	<0.001	<0.001	<0.001
6/8/2018		<0.001	<0.001				
10/8/2018	<0.001				<0.001	<0.001	<0.001
10/9/2018			<0.001				
10/18/2018		<0.001 (D)		<0.001 (D)			
2/19/2019						<0.001	<0.001
2/20/2019	<0.001	<0.001	<0.001	0.00027 (J)	<0.001		
4/2/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/17/2019	<0.001	<0.001	<0.001	0.00025 (J)	<0.001		
9/18/2019						<0.001	<0.001
2/18/2020				0.00025 (J)	<0.001	0.00018 (J)	<0.001
2/19/2020	<0.001		<0.001				
2/20/2020		<0.001					
3/23/2020			<0.001	0.00023 (J)	<0.001		
3/24/2020	<0.001					<0.001	<0.001
3/26/2020		<0.001					

# Time Series

Constituent: Lead (mg/L) Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.001	<0.001	<0.001	<0.001
6/27/2016	<0.001	<0.001	<0.001	
6/29/2016				<0.001
8/17/2016	<0.001	0.00085 (J)	<0.001	
8/22/2016				<0.001
10/17/2016	<0.001		<0.001	
10/18/2016		<0.001		<0.001
12/6/2016	<0.001	<0.001	<0.001	
12/7/2016				<0.001
2/14/2017	<0.001	<0.001	<0.001	
2/16/2017				<0.001
4/12/2017	<0.001	<0.001	<0.001	
4/13/2017				<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001
3/27/2018	<0.001	<0.001	<0.001	
3/28/2018				<0.001
6/6/2018	<0.001	<0.001	<0.001	<0.001
10/8/2018	<0.001			
10/9/2018		<0.001	<0.001	<0.001
2/20/2019	<0.001	<0.001	<0.001	<0.001
4/1/2019		<0.001	<0.001	<0.001
4/2/2019	<0.001			
9/16/2019	<0.001			<0.001
9/17/2019		<0.001	<0.001	
2/18/2020	<0.001	<0.001	<0.001	
2/19/2020				<0.001
3/25/2020	0.0002 (J)		0.00029 (J)	<0.001
3/26/2020		<0.001		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
5/11/2016						<0.005	
6/23/2016	0.0013 (J)	<0.005	<0.005				<0.005
6/24/2016					<0.005	<0.005	
6/27/2016				<0.005			
8/16/2016	<0.005	<0.005	<0.005		<0.005		<0.005
8/17/2016				<0.005		<0.005	
10/13/2016	<0.005		<0.005				
10/14/2016		<0.005		<0.005	<0.005		<0.005
10/17/2016						<0.005	
12/5/2016			<0.005				
12/6/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/14/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/10/2017			<0.005				
4/11/2017	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
6/26/2017	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
6/27/2017				<0.005			
3/26/2018	0.0024 (J)	<0.005	<0.005		0.0013 (J)		
3/27/2018				<0.005		<0.005	0.0017 (J)
6/5/2018	0.0018 (J)	<0.005	0.0011 (J)	0.0015 (J)			<0.005
6/6/2018					<0.005	<0.005	
10/5/2018	0.0018 (J)	<0.005	0.0012 (J)		<0.005		
10/8/2018				<0.005		<0.005	<0.005
2/18/2019	<0.005	<0.005				<0.005	
2/19/2019			<0.005	<0.005	<0.005		<0.005
3/28/2019				<0.005	<0.005	<0.005	<0.005
3/29/2019	<0.005	<0.005	<0.005				
9/12/2019							<0.005
9/13/2019			<0.005				
9/16/2019	0.0034	<0.005		<0.005	<0.005	<0.005	
2/13/2020	<0.005	<0.005	<0.005				
2/17/2020				<0.005			<0.005
2/18/2020					<0.005	<0.005	
3/17/2020		<0.005		<0.005	<0.005		<0.005
3/18/2020	<0.005		<0.005			<0.005	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.005	<0.005	<0.005				
5/12/2016				<0.005	<0.005	<0.005	<0.005
6/28/2016	<0.005	0.0013 (J)	<0.005	<0.005	<0.005	0.0024 (J)	<0.005
8/17/2016	<0.005	<0.005					
8/18/2016			<0.005	<0.005	<0.005	<0.005	<0.005
10/17/2016	<0.005	<0.005	<0.005	<0.005	<0.005		
10/18/2016						<0.005	<0.005
12/6/2016	<0.005	<0.005	<0.005	<0.005			
12/7/2016					<0.005	<0.005	<0.005
2/15/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/16/2017							<0.005
4/12/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
4/13/2017							<0.005
6/27/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/27/2018	<0.005	0.0029 (J)	<0.005	<0.005	<0.005	0.0034 (J)	<0.005
6/6/2018	<0.005	0.0017 (J)	<0.005				
6/7/2018				<0.005	<0.005	0.003 (J)	<0.005
10/8/2018			<0.005	0.0014 (J)	0.0011 (J)		0.0015 (J)
10/9/2018	<0.005						
10/16/2018		0.0031 (JD)				0.0034 (JD)	
2/20/2019	<0.005	0.0031 (J)	<0.005	<0.005	<0.005	0.0038 (J)	<0.005
4/1/2019	<0.005	0.0017 (J)	0.0011 (J)	<0.005	<0.005	0.0025 (J)	
4/2/2019							<0.005
9/16/2019		<0.005	<0.005				
9/17/2019	<0.005			<0.005	<0.005	0.0037	<0.005
2/18/2020		<0.005					
2/19/2020	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005	<0.005					
3/26/2020			<0.005				
3/27/2020				<0.005	<0.005	0.0038 (J)	<0.005

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.005			<0.05 (O)	<0.005	<0.005	<0.005
5/13/2016		<0.005	<0.005				
6/29/2016	<0.005		<0.005	0.0043 (J)	<0.005	<0.005	0.0027 (J)
6/30/2016		0.0032 (J)					
8/18/2016	<0.005						
8/19/2016						<0.005	<0.005
8/22/2016		<0.005	<0.005	0.0051	<0.005		
10/18/2016			<0.005	0.0038 (J)	<0.005	<0.005	0.0032 (J)
10/19/2016	<0.005 (D)	0.0042 (J)					
12/7/2016	<0.005	<0.005			<0.005	<0.005	0.0043 (J)
12/8/2016			<0.005	0.0043 (J)			
2/15/2017	<0.005						<0.005
2/16/2017		0.0034 (J)	<0.005	0.0047 (J)	<0.005	<0.005	
4/13/2017	<0.005	<0.005	<0.005	0.004 (J)	<0.005	<0.005	0.0036 (J)
6/27/2017	<0.005						
6/28/2017		<0.005	<0.005	0.0032 (J)	<0.005	<0.005	0.0032 (J)
3/27/2018	0.0014 (J)						0.005
3/28/2018		0.0056	<0.005	0.0053	0.0038 (J)	0.0033 (J)	
6/7/2018	<0.005			0.0038 (J)	0.0013 (J)	<0.005	0.0027 (J)
6/8/2018		0.0042 (J)	0.0022 (J)				
10/8/2018	<0.005				0.0019 (J)	0.0011 (J)	0.0035 (J)
10/9/2018			<0.005				
10/18/2018		0.0054 (D)		0.0062 (D)			
2/19/2019						<0.005	<0.005
2/20/2019	<0.005	0.0054	<0.005	0.0048 (J)	<0.005		
4/2/2019	<0.005	0.0041 (J)	0.0021 (J)	0.0046 (J)	0.0027 (J)	0.0026 (J)	0.0041 (J)
9/17/2019	<0.005	0.005	<0.005	0.0042	<0.005		
9/18/2019						<0.005	0.0043
2/18/2020				0.0036 (J)	<0.005	<0.005	<0.005
2/19/2020	<0.005		<0.005				
2/20/2020		0.0045 (J)					
3/23/2020			<0.005	0.0045 (J)	<0.005		
3/24/2020	<0.005					<0.005	<0.005
3/26/2020		0.0046 (J)					

# Time Series

Constituent: Lithium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.005	<0.05 (O)	<0.005	<0.005
6/27/2016	<0.005	0.0031 (J)	0.0013 (J)	
6/29/2016				<0.005
8/17/2016	<0.005	0.0046 (J)	<0.005	
8/22/2016				<0.005
10/17/2016	<0.005		<0.005	
10/18/2016		0.0036 (J)		<0.005
12/6/2016	<0.005	0.0043 (J)	<0.005	
12/7/2016				<0.005
2/14/2017	<0.005	0.0043 (J)	<0.005	
2/16/2017				<0.005
4/12/2017	<0.005	0.0051	<0.005	
4/13/2017				<0.005
6/27/2017	<0.005	0.0033 (J)	<0.005	<0.005
3/27/2018	<0.005	0.0061	0.0023 (J)	
3/28/2018				<0.005
6/6/2018	<0.005	0.004 (J)	0.0018 (J)	<0.005
10/8/2018	<0.005			
10/9/2018		0.0053	0.002 (J)	<0.005
2/20/2019	<0.005	0.006	<0.005	<0.005
4/1/2019		0.0058	0.0021 (J)	<0.005
4/2/2019	<0.005			
9/16/2019	<0.005			<0.005
9/17/2019		0.0049	<0.005	
2/18/2020	<0.005	0.0052	<0.005	
2/19/2020				<0.005
3/25/2020	<0.005		<0.005	<0.005
3/26/2020		0.006		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
5/11/2016						<0.0002	
6/23/2016	<0.0002	<0.0002	<0.0002				<0.0002
6/24/2016					<0.0002	<0.0002	
6/27/2016				<0.0002			
8/16/2016	<0.0002	<0.0002	<0.0002		<0.0002		7.2E-05 (J)
8/17/2016				<0.0002		<0.0002	
10/13/2016	<0.0002		<0.0002				
10/14/2016		<0.0002		<0.0002	<0.0002		<0.0002
10/17/2016						<0.0002	
12/5/2016			0.00012 (J)				
12/6/2016	0.00012 (J)	0.00011 (J)		0.00011 (J)	8.7E-05 (J)	0.00011 (J)	0.00012 (J)
2/14/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/10/2017			<0.0002				
4/11/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/26/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
6/27/2017				<0.0002			
3/26/2018	8.9E-05 (J)	<0.0002	<0.0002		<0.0002		
3/27/2018				<0.0002		<0.0002	<0.0002
6/5/2018	<0.0002	<0.0002	<0.0002	7.5E-05 (J)			<0.0002
6/6/2018					<0.0002	<0.0002	
10/5/2018	<0.0002	<0.0002	<0.0002		<0.0002		
10/8/2018				<0.0002		<0.0002	<0.0002
2/18/2019	<0.0002	<0.0002				<0.0002	
2/19/2019			<0.0002	<0.0002	<0.0002		<0.0002
3/28/2019				<0.0002	<0.0002	<0.0002	<0.0002
3/29/2019	7E-05 (J)	<0.0002	<0.0002				
9/12/2019							<0.0002
9/13/2019			<0.0002				
9/16/2019	<0.0002	<0.0002		<0.0002	0.0005	0.00027	
12/3/2019					<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002				
2/17/2020				<0.0002			<0.0002
2/18/2020					<0.0002	<0.0002	
3/17/2020		<0.0002		<0.0002	<0.0002		<0.0002
3/18/2020	<0.0002		<0.0002			<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.0002	<0.0002	<0.0002				
5/12/2016				<0.0002	<0.0002	<0.0002	<0.0002
6/28/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002					
8/18/2016			<0.0002	<0.0002	<0.0002	0.00011 (J)	<0.0002
10/17/2016	<0.0002	<0.0002	<0.0002	<0.0002	8.9E-05 (J)		
10/18/2016						0.00012 (J)	<0.0002
12/6/2016	0.00013 (J)	0.0001 (J)	9.3E-05 (J)	0.00011 (J)			
12/7/2016					0.00012 (J)	0.00017 (J)	7.6E-05 (J)
2/15/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00011 (J)	
2/16/2017							<0.0002
4/12/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	7.2E-05 (J)	
4/13/2017							<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.4E-05 (J)	<0.0002
3/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	0.0001 (J)	0.00014 (J)	<0.0002
6/6/2018	<0.0002	<0.0002	<0.0002				
6/7/2018				<0.0002	<0.0002	0.00013 (J)	<0.0002
10/8/2018			<0.0002	<0.0002	<0.0002		<0.0002
10/9/2018	<0.0002						
10/16/2018		<0.0002				<0.0002	
2/20/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/1/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
4/2/2019							<0.0002
9/16/2019		<0.0002	<0.0002				
9/17/2019	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/18/2020		<0.0002					
2/19/2020	<0.0002		<0.0002	<0.0002	0.0002	0.00016 (J)	<0.0002
3/25/2020	<0.0002	<0.0002					
3/26/2020			<0.0002				
3/27/2020				<0.0002	<0.0002	0.00011 (J)	<0.0002



# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
5/13/2016		<0.0002	<0.0002				
6/29/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/30/2016		<0.0002					
8/18/2016	<0.0002						
8/19/2016						<0.0002	7.1E-05 (J)
8/22/2016		0.00014 (J)	<0.0002	7.3E-05 (J)	<0.0002		
10/18/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/19/2016	<0.0002 (D)	<0.0002					
12/7/2016	0.00011 (J)	0.00014 (J)			0.0001 (J)	9.9E-05 (J)	0.00011 (J)
12/8/2016			<0.0002	<0.0002			
2/15/2017	<0.0002						<0.0002
2/16/2017		8.4E-05 (J)	<0.0002	<0.0002	<0.0002	<0.0002	
4/13/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002						
6/28/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/27/2018	<0.0002						<0.0002
3/28/2018		8.3E-05 (J)	<0.0002	<0.0002	<0.0002	<0.0002	
6/7/2018	0.00011 (J)			8.2E-05 (J)	<0.0002	<0.0002	0.00028
6/8/2018		0.00014 (J)	<0.0002				
10/8/2018	<0.0002				<0.0002	<0.0002	<0.0002
10/9/2018			<0.0002				
10/18/2018		0.00021		<0.0002 (D)			
2/19/2019						<0.0002	<0.0002
2/20/2019	<0.0002	0.00026	<0.0002	<0.0002	<0.0002		
4/2/2019	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/17/2019	<0.0002	0.00014 (J)	<0.0002	<0.0002	<0.0002		
9/18/2019						<0.0002	<0.0002
2/18/2020				<0.0002	<0.0002	<0.0002	0.00011 (J)
2/19/2020	<0.0002		<0.0002				
2/20/2020		0.00022					
3/23/2020			<0.0002	<0.0002	<0.0002		
3/24/2020	<0.0002					<0.0002	<0.0002
3/26/2020		0.00019 (J)					

# Time Series

Constituent: Mercury (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.0002	<0.0002	<0.0002	<0.0002
6/27/2016	<0.0002	<0.0002	<0.0002	
6/29/2016				<0.0002
8/17/2016	<0.0002	<0.0002	<0.0002	
8/22/2016				<0.0002
10/17/2016	<0.0002		<0.0002	
10/18/2016		<0.0002		<0.0002
12/6/2016	0.00011 (J)	0.00011 (J)	7.6E-05 (J)	
12/7/2016				0.0001 (J)
2/14/2017	<0.0002	<0.0002	<0.0002	
2/16/2017				<0.0002
4/12/2017	<0.0002	<0.0002	<0.0002	
4/13/2017				<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002	<0.0002
3/27/2018	<0.0002	<0.0002	<0.0002	
3/28/2018				<0.0002
6/6/2018	<0.0002	<0.0002	<0.0002	<0.0002
10/8/2018	<0.0002			
10/9/2018		<0.0002	<0.0002	<0.0002
2/20/2019	<0.0002	<0.0002	<0.0002	<0.0002
4/1/2019		<0.0002	<0.0002	<0.0002
4/2/2019	<0.0002			
9/16/2019	<0.0002			<0.0002
9/17/2019		<0.0002	<0.0002	
2/18/2020	<0.0002	<0.0002	<0.0002	
2/19/2020				<0.0002
3/25/2020	<0.0002		<0.0002	<0.0002
3/26/2020		<0.0002		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.015	<0.015	<0.015	<0.015	<0.015		<0.015
5/11/2016						0.00278 (J)	
6/23/2016	<0.015	<0.015	<0.015				<0.015
6/24/2016					<0.015	0.0022 (J)	
6/27/2016				<0.015			
8/16/2016	<0.015	<0.015	<0.015		<0.015		<0.015
8/17/2016				<0.015		0.0018 (J)	
10/13/2016	<0.015		<0.015				
10/14/2016		<0.015		<0.015	<0.015		<0.015
10/17/2016						0.0014 (J)	
12/5/2016			<0.015				
12/6/2016	<0.015	<0.015		<0.015	<0.015	0.00095 (J)	<0.015
2/14/2017	<0.015	<0.015	<0.015	<0.015	0.0011 (J)	<0.015	<0.015
4/10/2017			<0.015				
4/11/2017	<0.015	<0.015		<0.015	<0.015	0.0011 (J)	<0.015
6/26/2017	<0.015	<0.015	<0.015		<0.015	0.0016 (J)	<0.015
6/27/2017				<0.015			
3/26/2018	<0.015	<0.015	<0.015		<0.015		
3/27/2018				<0.015		<0.015	<0.015
10/5/2018	<0.015	<0.015	<0.015		<0.015		
10/8/2018				<0.015		<0.015	<0.015
2/18/2019	<0.015	<0.015				0.00085 (J)	
2/19/2019			<0.015	<0.015	<0.015		<0.015
3/28/2019				<0.015	<0.015	<0.015	<0.015
3/29/2019	<0.015	<0.015	<0.015				
9/12/2019							<0.015
9/13/2019			<0.015				
9/16/2019	<0.015	<0.015		<0.015	<0.015	0.00069 (J)	
2/13/2020	<0.015	<0.015	<0.015				
2/17/2020				<0.015			<0.015
2/18/2020					<0.015	0.00075 (J)	
3/17/2020		<0.015		<0.015	<0.015		<0.015
3/18/2020	<0.015		<0.015			0.00064 (J)	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.015	<0.015	<0.015				
5/12/2016				<0.015	<0.015	<0.015	<0.015
6/28/2016	<0.015	<0.015	0.0012 (J)	<0.015	<0.015	<0.015	<0.015
8/17/2016	<0.015	<0.015					
8/18/2016			0.0011 (J)	<0.015	<0.015	<0.015	<0.015
10/17/2016	<0.015	<0.015	<0.015	<0.015	<0.015		
10/18/2016						<0.015	<0.015
12/6/2016	<0.015	<0.015	<0.015	<0.015			
12/7/2016					<0.015	<0.015	<0.015
2/15/2017	<0.015	<0.015	<0.015	<0.015	0.003 (J)	<0.015	
2/16/2017							<0.015
4/12/2017	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
4/13/2017							<0.015
6/27/2017	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
3/27/2018	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
10/8/2018			<0.015	<0.015	<0.015		<0.015
10/9/2018	<0.015						
10/16/2018		<0.015				<0.015	
2/20/2019	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
4/1/2019	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
4/2/2019							<0.015
9/16/2019		<0.015	<0.015				
9/17/2019	<0.015			<0.015	<0.015	<0.015	<0.015
2/18/2020		<0.015					
2/19/2020	<0.015		<0.015	<0.015	<0.015	<0.015	<0.015
3/25/2020	<0.015	<0.015					
3/26/2020			<0.015				
3/27/2020				<0.015	0.00081 (J)	<0.015	<0.015

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.015			<0.015	<0.015	<0.015	<0.015
5/13/2016		<0.015	<0.015				
6/29/2016	<0.015		<0.015	<0.015	<0.015	<0.015	<0.015
6/30/2016		<0.015					
8/18/2016	<0.015						
8/19/2016						<0.015	<0.015
8/22/2016		<0.015	<0.015	<0.015	<0.015		
10/18/2016			<0.015	<0.015	<0.015	<0.015	<0.015
10/19/2016	<0.015 (D)	<0.015					
12/7/2016	<0.015	<0.015			<0.015	<0.015	<0.015
12/8/2016			<0.015	<0.015			
2/15/2017	<0.015						<0.015
2/16/2017		<0.015	<0.015	<0.015	<0.015	<0.015	
4/13/2017	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
6/27/2017	<0.015						
6/28/2017		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
3/27/2018	<0.015						<0.015
3/28/2018		<0.015	<0.015	<0.015	<0.015	<0.015	
10/8/2018	<0.015				<0.015	<0.015	<0.015
10/9/2018			<0.015				
10/18/2018		<0.015		<0.015			
2/19/2019						<0.015	<0.015
2/20/2019	<0.015	<0.015	<0.015	<0.015	<0.015		
4/2/2019	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
9/17/2019	<0.015	<0.015	<0.015	<0.015	<0.015		
9/18/2019						<0.015	<0.015
2/18/2020				<0.015	<0.015	<0.015	<0.015
2/19/2020	<0.015		<0.015				
2/20/2020		<0.015					
3/23/2020			<0.015	<0.015	<0.015		
3/24/2020	<0.015					<0.015	<0.015
3/26/2020		<0.015					

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.015	0.00343 (J)	<0.015	<0.015
6/27/2016	0.0007 (J)	0.0033 (J)	0.0008 (J)	
6/29/2016				0.0021 (J)
8/17/2016	<0.015	0.002 (J)	<0.015	
8/22/2016				0.00099 (J)
10/17/2016	<0.015		<0.015	
10/18/2016		0.0012 (J)		0.0014 (J)
12/6/2016	<0.015	0.0021 (J)	<0.015	
12/7/2016				0.001 (J)
2/14/2017	<0.015	<0.015	<0.015	
2/16/2017				<0.015
4/12/2017	<0.015	0.0033 (J)	<0.015	
4/13/2017				0.001 (J)
6/27/2017	0.00099 (J)	0.0021 (J)	<0.015	<0.015
3/27/2018	<0.015	<0.015	<0.015	
3/28/2018				<0.015
10/8/2018	<0.015			
10/9/2018		<0.015	<0.015	<0.015
2/20/2019	<0.015	0.0013 (J)	<0.015	0.00075 (J)
4/1/2019		<0.015	<0.015	<0.015
4/2/2019	<0.015			
9/16/2019	<0.015			0.00067 (J)
9/17/2019		0.0014 (J)	<0.015	
2/18/2020	<0.015	0.0014 (J)	<0.015	
2/19/2020				0.00063 (J)
3/25/2020	<0.015		<0.015	<0.015
3/26/2020		0.001 (J)		

# Time Series

Constituent: pH (S.U.) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	5.51	6.83	6.34	6.14	5.75		5.84
5/11/2016						6.49	
8/16/2016	5.42	6.73	6.35		5.72		5.64
8/17/2016				6.1		6.42	
10/13/2016	5.52		6.34				
10/14/2016		6.47		6.14	5.71		5.59
10/17/2016						6.44	
12/5/2016			6.32				
12/6/2016	5.33	6.74		6.19	5.68	6.48	5.46
2/14/2017	5.29	6.85	6.33	6.34	5.57	6.18	5.29
4/10/2017			6.31				
4/11/2017	5.21	6.75		6.16	5.7	6.49	5.54
6/26/2017	5.25	6.82	6.35		5.68	6.48	5.54
6/27/2017				6.08			
10/10/2017	5.49	6.87	6.37				
10/11/2017				6.16	5.63	6.42	5.43
3/26/2018	5.39	6.77	6.32		5.89		
3/27/2018				6.12		6.53	5.52
6/5/2018	5.38	6.73	6.27	6.06			5.59
6/6/2018					5.62	6.7	
10/5/2018	5.46	6.81	6.37		5.76		5.7
10/8/2018				6.16		6.53	
3/28/2019				6.15	5.88	6.53	5.67
3/29/2019	5.22	6.81	6.31				
9/12/2019							5.59
9/13/2019			6.36				
9/16/2019	5.22	6.82		6.05	5.8	6.44	
2/13/2020	5.09	6.59	6.24				
2/17/2020				6.1			5.73
2/18/2020					5.76	6.38	
3/17/2020		6.83		6.02	5.87		5.62
3/18/2020	5.37		6.4			6.36	

# Time Series

Constituent: pH (S.U.) Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	5.7	5.84	6.28				
5/12/2016				6.09	5.79	4.76	5.29
8/17/2016	5.55	5.71					
8/18/2016			6.23	6	5.75	4.73	5.3
10/17/2016	5.45	5.69	6.27	6.01	5.73		
10/18/2016						4.62	5.23
12/6/2016	5.49	5.58	6.28	5.98			
12/7/2016					5.75	4.63	5.31
2/15/2017	5.29	5.54	6.21	5.74	5.58	4.51	
2/16/2017							4.77
4/12/2017	5.39	5.47	6.15	6.01	5.85	4.67	
4/13/2017							5.28
6/27/2017		5.47	6.23	6.05	5.86	4.66	5.22 (D)
10/11/2017		5.58	6.26	6.14	5.98		
10/12/2017	5.3					4.76	5.43
3/27/2018	5.58	5.65	6.32	6.25	5.87	4.61	5.28
6/6/2018	5.43	5.32	6.1				
6/7/2018				5.93	5.81	4.62	5.26
10/8/2018			6.16	6.02	5.83		5.29
10/9/2018	5.29						
10/16/2018		5.34				4.59	
4/1/2019	5.46	5.24	6.14	6.06	5.89	4.72	
4/2/2019							5.27
9/16/2019		5.32	6.18				
9/17/2019	5.31			5.98	5.78	4.65	5.26
2/18/2020		5.09					
2/19/2020	5.07		6.07	5.94	5.75	4.58	5.16
3/25/2020	5.26	5.16					
3/26/2020			6.1				
3/27/2020				5.89	5.74	4.51	5.17



# Time Series

Constituent: pH (S.U.) Analysis Run 6/16/2020 2:48 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	6.21			4.36	5.95	5.675 (D)	6.18
5/13/2016		4.7	5.55				
8/18/2016	6.24						
8/19/2016						5.65	5.84
8/22/2016		4.68	5.5	4.37	5.96		
10/18/2016			5.46	4.26	5.9	5.71	5.89
10/19/2016	6.2	4.65					
12/7/2016	6.19	4.69			6.03	5.71	5.87
12/8/2016			5.39	4.28			
2/15/2017	6.25						6.04
2/16/2017		4.77	5.32	4.29	6.03	5.7	
4/13/2017	6.21	4.79	5.47	4.24	5.93	5.7	5.85
6/27/2017	6.27						
6/28/2017		4.78	5.5	4.28	6	5.66	5.9
10/12/2017	6.33	4.86	5.57	4.32	6.09	5.73	6.07
3/27/2018	6.26						5.99
3/28/2018		4.74	5.74	4.25	6.08	5.89	
6/7/2018	6.21			4.26	6.1	5.66	5.97
6/8/2018		4.69	5.52				
10/8/2018	6.17				6.14	5.74	5.94
10/9/2018			5.51				
10/18/2018		4.7		4.3			
4/2/2019	6.26	4.72	5.5	4.33	6.09	5.65	5.87
9/17/2019	6.23	4.77	5.55	4.37	6.27		
9/18/2019						5.66	5.97
2/18/2020				4.3	6.06	5.59	5.95
2/19/2020	6.16		5.53				
2/20/2020		4.64					
3/23/2020			5.51	4.19	6.12		
3/24/2020	6.21					5.62	6
3/26/2020		4.74					

# Time Series

Constituent: pH (S.U.) Analysis Run 6/16/2020 2:48 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	6.39	6.66	6.35	6.24
8/17/2016	6.28	6.55	6.45	
8/22/2016				6.15
10/17/2016	6.3		6.43	
10/18/2016		6.59		6.11
12/6/2016	6.3	6.51	6.48	
12/7/2016				6.14
2/14/2017	6.31	6.3	6.39	
2/16/2017				5.95
4/12/2017	6.23	6.43	6.35	
4/13/2017				6.09
6/27/2017	6.23	6.56	6.41	6.09
10/11/2017	6.09	6.4		
10/12/2017			6.41	6.16
3/27/2018	6.2	6.6	6.66	
3/28/2018				6.3
6/6/2018	5.99	6.56	6.42	6.12
10/8/2018	6.3			
10/9/2018		6.56	6.51	6.06
4/1/2019		6.57	6.41	6.11
4/2/2019	6.25			
9/16/2019	6.26			6.11
9/17/2019		6.41	6.5	
2/18/2020	6.32	6.35	6.39	
2/19/2020				6.03
3/25/2020	6.31		6.35	6.01
3/26/2020		6.52		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
5/11/2016						<0.005	
6/23/2016	<0.005	<0.005	<0.005				<0.005
6/24/2016					<0.005	<0.005	
6/27/2016				<0.005			
8/16/2016	<0.005	<0.005	<0.005		<0.005		<0.005
8/17/2016				<0.005		<0.005	
10/13/2016	<0.005		<0.005				
10/14/2016		<0.005		<0.005	<0.005		<0.005
10/17/2016						<0.005	
12/5/2016			<0.005				
12/6/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/14/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/10/2017			<0.005				
4/11/2017	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
6/26/2017	<0.005	<0.005	<0.005		0.00029 (J)	0.00041 (J)	<0.005
6/27/2017				<0.005			
3/26/2018	<0.005	<0.005	<0.005		<0.005		
3/27/2018				<0.005		<0.005	<0.005
6/5/2018	0.00065 (J)	0.00098 (J)	0.00041 (J)	0.00029 (J)			0.00039 (J)
6/6/2018					<0.005	<0.005	
10/5/2018	0.00031 (J)	0.00028 (J)	<0.005		0.00024 (J)		
10/8/2018				<0.005		0.00041 (J)	<0.005
2/18/2019	<0.005	0.00017 (J)				<0.005	
2/19/2019			<0.005	<0.005	0.00012 (J)		<0.005
3/28/2019				<0.005	<0.005	<0.005	<0.005
3/29/2019	<0.005	<0.005	<0.005				
9/12/2019							<0.005
9/13/2019			<0.005				
9/16/2019	<0.005	<0.005		<0.005	<0.005	<0.005	
2/13/2020	<0.005	<0.005	<0.005				
2/17/2020				<0.005			<0.005
2/18/2020					<0.005	<0.005	
3/17/2020		<0.005		<0.005	<0.005		<0.005
3/18/2020	<0.005		<0.005			<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.005	<0.005	<0.005				
5/12/2016				<0.005	<0.005	0.00965 (J)	<0.005
6/28/2016	<0.005	<0.005	<0.005	<0.005	<0.005	0.0101	<0.005
8/17/2016	<0.005	<0.005					
8/18/2016			0.00031 (J)	<0.005	<0.005	0.0014	0.00053 (J)
10/17/2016	<0.005	<0.005	<0.005	0.0003 (J)	<0.005		
10/18/2016						0.0013	<0.005
12/6/2016	<0.005	<0.005	<0.005	<0.005			
12/7/2016					<0.005	0.0007 (J)	<0.005
2/15/2017	<0.005	<0.005	<0.005	<0.005	0.00066 (J)	0.00075 (J)	
2/16/2017							<0.005
4/12/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
4/13/2017							<0.005
6/27/2017	<0.005	<0.005	<0.005	<0.005	<0.005	0.0013	0.001 (J)
3/27/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/6/2018	<0.005	<0.005	<0.005				
6/7/2018				0.00064 (J)	0.00084 (J)	0.0014	0.0013
10/8/2018			<0.005	<0.005	<0.005		0.0014
10/9/2018	<0.005						
10/16/2018		0.00046 (JD)				0.0021 (D)	
2/20/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034	0.0012 (J)
4/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
4/2/2019							0.0021
9/16/2019		<0.005	<0.005				
9/17/2019	<0.005			<0.005	<0.005	<0.005	<0.005
2/18/2020		<0.005					
2/19/2020	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005	<0.005					
3/26/2020			<0.005				
3/27/2020				<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.005			0.00396 (J)	<0.005	<0.005	<0.005
5/13/2016		0.023	<0.005				
6/29/2016	<0.005		<0.005	0.0053 (J)	<0.005	<0.005	<0.005
6/30/2016		0.0263					
8/18/2016	<0.005						
8/19/2016						<0.005	<0.005
8/22/2016		0.0066	<0.005	0.0012 (J)	<0.005		
10/18/2016			<0.005	<0.005	<0.005	<0.005	<0.005
10/19/2016	<0.005 (D)	0.0057					
12/7/2016	<0.005	0.006			<0.005	<0.005	<0.005
12/8/2016			<0.005	<0.005			
2/15/2017	<0.005						<0.005
2/16/2017		0.0055	<0.005	<0.005	<0.005	<0.005	
4/13/2017	<0.005	0.0049	<0.005	<0.005	<0.005	<0.005	<0.005
6/27/2017	0.00024 (J)						
6/28/2017		0.0047	0.00096 (J)	0.00064 (J)	<0.005	<0.005	0.00033 (J)
3/27/2018	<0.005						<0.005
3/28/2018		0.0085	<0.005	<0.005	<0.005	<0.005	
6/7/2018	0.00064 (J)			0.00066 (J)	<0.005	<0.005	<0.005
6/8/2018		0.014	0.00063 (J)				
10/8/2018	0.00028 (J)				<0.005	<0.005	0.00026 (J)
10/9/2018			0.0005 (J)				
10/18/2018		0.017 (D)		0.00049 (JD)			
2/19/2019						<0.005	0.00021 (J)
2/20/2019	<0.005	0.027	<0.005	0.0011 (J)	<0.005		
4/2/2019	<0.005	0.0075	<0.005	<0.005	<0.005	<0.005	<0.005
9/17/2019	<0.005	0.0036	<0.005	<0.005	<0.005		
9/18/2019						<0.005	<0.005
2/18/2020				<0.005	<0.005	<0.005	<0.005
2/19/2020	<0.005		<0.005				
2/20/2020		0.0024 (J)					
3/23/2020			<0.005	<0.005	<0.005		
3/24/2020	<0.005					<0.005	<0.005
3/26/2020		0.0019 (J)					

# Time Series

Constituent: Selenium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.005	<0.005	<0.005	<0.005
6/27/2016	<0.005	<0.005	<0.005	
6/29/2016				<0.005
8/17/2016	<0.005	<0.005	<0.005	
8/22/2016				<0.005
10/17/2016	<0.005		<0.005	
10/18/2016		<0.005		<0.005
12/6/2016	<0.005	<0.005	<0.005	
12/7/2016				<0.005
2/14/2017	<0.005	<0.005	<0.005	
2/16/2017				<0.005
4/12/2017	0.00034 (J)	<0.005	<0.005	
4/13/2017				<0.005
6/27/2017	0.00057 (J)	<0.005	<0.005	<0.005
3/27/2018	<0.005	<0.005	<0.005	
3/28/2018				<0.005
6/6/2018	0.00032 (J)	<0.005	<0.005	<0.005
10/8/2018	<0.005			
10/9/2018		0.00034 (J)	<0.005	<0.005
2/20/2019	<0.005	<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005	<0.005
4/2/2019	<0.005			
9/16/2019	<0.005			<0.005
9/17/2019		<0.005	<0.005	
2/18/2020	<0.005	<0.005	<0.005	
2/19/2020				<0.005
3/25/2020	<0.005		<0.005	<0.005
3/26/2020		<0.005		

# Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.6766 (J)	0.4053 (J)	<1	0.686 (J)	2.82		0.4716 (J)
5/11/2016						3.75	
6/23/2016	0.94 (J)	0.55 (J)	0.3 (J)				0.46 (J)
6/24/2016					2.3	3	
6/27/2016				0.61 (J)			
8/16/2016	1.2	<1	<1		1.5		<1
8/17/2016				<1		1.8	
10/13/2016	2.9		<1				
10/14/2016		<1		<1	1.2		<1
10/17/2016						1.4	
12/5/2016			<1				
12/6/2016	3.2	<1		<1	1.3	1.4	<1
2/14/2017	0.76 (J)	<1	<1	<1	1.9	1.1	<1
4/10/2017			<1				
4/11/2017	<1	<1		<1	1.3	1	<1
6/26/2017	0.74 (J)	<1	<1		1.5	0.99 (J)	<1
6/27/2017				<1			
10/10/2017	0.76 (J)	<1	<1				
10/11/2017				<1	0.98 (J)	0.93 (J)	<1
6/5/2018	<1	<1	<1	<1			<1
6/6/2018					1.8	0.89 (J)	
12/13/2018	<1	<1	<1	<1	1.4	0.76 (J)	<1
3/28/2019				<1	1.9	1.2	<1
3/29/2019	<1	0.65 (J)	<1				
9/12/2019							<1
9/13/2019			<1				
9/16/2019	0.98 (J)	0.68 (J)		<1	0.92 (J)	1.1	
3/17/2020		0.78 (J)		0.61 (J)	1.6		0.55 (J)
3/18/2020	1.2		0.45 (J)			1.3	

# Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	7.43	6.31	30.1				
5/12/2016				89.7	194	194	9.9
6/28/2016	6.3	3.7	25	76	200	200	11
8/17/2016	11	2.4					
8/18/2016			24	78	180	190	14
10/17/2016	4.4	2.1	23	73	190		
10/18/2016						190	15
12/6/2016	11	1.9	28	76			
12/7/2016					200	200	17
2/15/2017	1.3	1.2	33	73	190	190	
2/16/2017							17
4/12/2017	2.8	1	30	70	170	170	
4/13/2017							15
6/27/2017	8.2	1.2	33	78	200	200	19
10/11/2017		0.82 (J)	33	72	190		
10/12/2017	1.3					190	20
6/6/2018	2.9	0.89 (J)	41				
6/7/2018				69	190	190	25
10/16/2018		1.3				200	
12/14/2018			43	74	190		
12/17/2018	16						28
4/1/2019	21	0.81 (J)	48	82	180	190	
4/2/2019							31
9/16/2019		0.72 (J)	44				
9/17/2019	2.3			79	200	220	33
3/25/2020	14	0.58 (J)					
3/26/2020			44				
3/27/2020				81	180	190	35



# Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	125			255	76.9	85.3	131
5/13/2016		484	212				
6/29/2016	120		220	270	78	84	120
6/30/2016		490					
8/18/2016	130						
8/19/2016						81	120
8/22/2016		500	220	270	78		
10/18/2016			210	240	70	83	130
10/19/2016	140 (D)	520					
12/7/2016	160	510			80	85	140
12/8/2016			220	240			
2/15/2017	160						120
2/16/2017		450	210	230	77	83	
4/13/2017	140	380	190	220	70	79	100
6/27/2017	160						
6/28/2017		390	220	240	82	90	120
10/12/2017	170	430	210	210	76	87	120
6/7/2018	170			210	79	94	100
6/8/2018		870	220				
10/18/2018		1200		210			
12/14/2018	180						
12/17/2018			270		88	99	96
4/2/2019	180	1100	240	220	92	100	95
9/17/2019	200	1100	260	220	99		
9/18/2019						100	95
3/23/2020			250	220	120		
3/24/2020	190					100	71
3/26/2020		1000					

# Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	0.866 (J)	21.6	61.6	313
6/27/2016	0.86 (J)	17	64	
6/29/2016				280
8/17/2016	<1	19	63	
8/22/2016				300
10/17/2016	<1		64	
10/18/2016		17		280
12/6/2016	<1	18	72	
12/7/2016				280
2/14/2017	1	21	73	
2/16/2017				300
4/12/2017	<1	18	64	
4/13/2017				280
6/27/2017	<1	19	77	340
10/11/2017	<1	15		
10/12/2017			74	310
6/6/2018	<1	14	74	320
12/14/2018	<1	10	72	
12/17/2018				330
4/1/2019		16	67	310
4/2/2019	1.3			
9/16/2019	0.53 (J)			310
9/17/2019		8.7	77	
3/25/2020	0.58 (J)		62	300
3/26/2020		15		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
5/11/2016						<0.001	
6/23/2016	8E-05 (J)	<0.001	<0.001				<0.001
6/24/2016					0.0001 (J)	<0.001	
6/27/2016				<0.001			
8/16/2016	9.5E-05 (J)	<0.001	<0.001		<0.001		<0.001
8/17/2016				<0.001		<0.001	
10/13/2016	<0.001		<0.001				
10/14/2016		<0.001		<0.001	<0.001		<0.001
10/17/2016						<0.001	
12/5/2016			<0.001				
12/6/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/14/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/10/2017			<0.001				
4/11/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
6/26/2017	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
6/27/2017				<0.001			
3/26/2018	<0.001	<0.001	<0.001		<0.001		
3/27/2018				<0.001		<0.001	<0.001
6/5/2018	<0.001	<0.001	<0.001	<0.001			<0.001
6/6/2018					<0.001	<0.001	
10/5/2018	<0.001	<0.001	<0.001		<0.001		
10/8/2018				<0.001		<0.001	<0.001
2/18/2019	<0.001	<0.001				<0.001	
2/19/2019			<0.001	<0.001	<0.001		<0.001
3/28/2019				<0.001	<0.001	<0.001	<0.001
3/29/2019	<0.001	<0.001	<0.001				
9/12/2019							<0.001
9/13/2019			<0.001				
9/16/2019	<0.001	<0.001		<0.001	<0.001	<0.001	
2/13/2020	<0.001	<0.001	<0.001				
2/17/2020				<0.001			<0.001
2/18/2020					0.00033 (J)	0.00049 (J)	
3/17/2020		<0.001		<0.001	<0.001		<0.001
3/18/2020	0.00049 (J)		<0.001			0.00021 (J)	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.001	<0.001	<0.001				
5/12/2016				<0.001	<0.001	<0.001	<0.001
6/28/2016	0.0001 (J)	<0.001	<0.001	<0.001	<0.001	9E-05 (J)	<0.001
8/17/2016	<0.001	<0.001					
8/18/2016			<0.001	<0.001	<0.001	<0.001	<0.001
10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2016						<0.001	<0.001
12/6/2016	<0.001	<0.001	<0.001	<0.001			
12/7/2016					<0.001	<0.001	<0.001
2/15/2017	<0.001	<0.001	<0.001	<0.001	<0.001	8.5E-05 (J)	
2/16/2017							<0.001
4/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	9.5E-05 (J)	
4/13/2017							<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)	<0.001
3/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/6/2018	<0.001	<0.001	<0.001				
6/7/2018				<0.001	<0.001	<0.001	<0.001
10/8/2018			<0.001	<0.001	<0.001		<0.001
10/9/2018	<0.001						
10/16/2018		<0.001 (D)				0.0001 (JD)	
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	9.8E-05 (J)	<0.001
4/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	9.5E-05 (J)	
4/2/2019							<0.001
9/16/2019		<0.001	<0.001				
9/17/2019	<0.001			<0.001	<0.001	0.00016 (J)	<0.001
2/18/2020		0.00016 (J)					
2/19/2020	0.00075 (J)		0.00034 (J)	0.00022 (J)	0.00018 (J)	0.00031 (J)	<0.001
3/25/2020	<0.001	<0.001					
3/26/2020			<0.001				
3/27/2020				<0.001	0.0011	0.00045 (J)	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.001			<0.001	<0.001	<0.001	<0.001
5/13/2016		<0.001	<0.001				
6/29/2016	<0.001		<0.001	0.0002 (J)	<0.001	<0.001	<0.001
6/30/2016		0.0002 (J)					
8/18/2016	<0.001						
8/19/2016						<0.001	<0.001
8/22/2016		0.00015 (J)	<0.001	0.00018 (J)	<0.001		
10/18/2016			<0.001	0.00016 (J)	<0.001	<0.001	<0.001
10/19/2016	<0.001 (D)	0.00012 (J)					
12/7/2016	<0.001	9.5E-05 (J)			<0.001	<0.001	<0.001
12/8/2016			<0.001	0.0001 (J)			
2/15/2017	<0.001						<0.001
2/16/2017		0.00013 (J)	<0.001	0.00014 (J)	<0.001	<0.001	
4/13/2017	<0.001	0.00012 (J)	<0.001	0.00021 (J)	<0.001	<0.001	<0.001
6/27/2017	<0.001						
6/28/2017		0.00013 (J)	<0.001	0.00018 (J)	<0.001	<0.001	<0.001
3/27/2018	<0.001						<0.001
3/28/2018		0.00011 (J)	<0.001	9E-05 (J)	<0.001	<0.001	
6/7/2018	<0.001			0.00014 (J)	<0.001	<0.001	<0.001
6/8/2018		0.00019 (J)	<0.001				
10/8/2018	<0.001				<0.001	<0.001	<0.001
10/9/2018			<0.001				
10/18/2018		0.00019 (JD)		0.00018 (JD)			
2/19/2019						<0.001	<0.001
2/20/2019	<0.001	0.00021 (J)	<0.001	0.00018 (J)	<0.001		
4/2/2019	<0.001	0.00016 (J)	<0.001	0.00017 (J)	<0.001	<0.001	<0.001
9/17/2019	<0.001	0.00025 (J)	<0.001	0.00021 (J)	<0.001		
9/18/2019						<0.001	<0.001
2/18/2020				0.00033 (J)	<0.001	<0.001	<0.001
2/19/2020	<0.001		<0.001				
2/20/2020		0.00066 (J)					
3/23/2020			<0.001	0.00016 (J)	<0.001		
3/24/2020	<0.001					<0.001	<0.001
3/26/2020		0.00029 (J)					

# Time Series

Constituent: Thallium (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.001	<0.001	<0.001	<0.001
6/27/2016	<0.001	<0.001	<0.001	
6/29/2016				<0.001
8/17/2016	<0.001	<0.001	<0.001	
8/22/2016				<0.001
10/17/2016	<0.001		<0.001	
10/18/2016		<0.001		<0.001
12/6/2016	<0.001	<0.001	<0.001	
12/7/2016				<0.001
2/14/2017	<0.001	<0.001	<0.001	
2/16/2017				<0.001
4/12/2017	<0.001	<0.001	<0.001	
4/13/2017				<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001
3/27/2018	<0.001	<0.001	<0.001	
3/28/2018				<0.001
6/6/2018	<0.001	<0.001	<0.001	<0.001
10/8/2018	<0.001			
10/9/2018		<0.001	<0.001	<0.001
2/20/2019	<0.001	<0.001	<0.001	<0.001
4/1/2019		<0.001	<0.001	<0.001
4/2/2019	<0.001			
9/16/2019	<0.001			<0.001
9/17/2019		<0.001	0.00023 (J)	
2/18/2020	0.00028 (J)	0.00022 (J)	0.0002 (J)	
2/19/2020				0.00027 (J)
3/25/2020	0.00049 (J)		0.00079 (J)	<0.001
3/26/2020		<0.001		

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	44	96	110	100	59		64
5/11/2016						91	
6/23/2016	38	91	118				58
6/24/2016					39	78	
6/27/2016				117			
8/16/2016	22	100	110		38		52
8/17/2016				86		100	
10/13/2016	66		120				
10/14/2016		100		80	34		58
10/17/2016						58	
12/5/2016			110				
12/6/2016	54	110		110	70	98	72
2/14/2017	18	76	86	98	32	78	52
4/10/2017			120				
4/11/2017	50	120		110	64	110	78
6/26/2017	60	110	130		64	110	80
6/27/2017				18			
10/10/2017	36	100	110				
10/11/2017				94	42	120	64
6/5/2018	8	74	76	80			50
6/6/2018					46	120	
12/13/2018	16	110	100	4 (J)	4 (J)	94	58
3/28/2019				79	43	110	58
3/29/2019	<10	72	110				
9/12/2019							22
9/13/2019			200				
9/16/2019	17	91		42	19	57	
3/17/2020		100		98	52		30
3/18/2020	25		110			140	

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	68	80	195				
5/12/2016				190	309	298	46
6/28/2016	41	134	200	198	333	337	60
8/17/2016	70	42					
8/18/2016			200	180	320	310	48
10/17/2016	6	24	160	140	320		
10/18/2016						320	60
12/6/2016	40	70	220	110			
12/7/2016					340	270	64
2/15/2017	18	34	200	160	340	310	
2/16/2017							40
4/12/2017	18	36	180	140	300	280	
4/13/2017							76
6/27/2017	50	8	200	170	320	290	50
10/11/2017		56	190	170	340		
10/12/2017	46					330	68
6/6/2018	38	40	260				
6/7/2018				190	340	310	74
10/16/2018		100 (D)				350 (D)	
12/14/2018			190	140	280		
12/17/2018	38						42
4/1/2019	82	33	200	190	330	330	
4/2/2019							73
9/16/2019		<10	200				
9/17/2019	17			170	310	320	59
3/25/2020	59	38					
3/26/2020			200				
3/27/2020				200	330	330	99



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	261			386	260	212	288
5/13/2016		728	366				
6/29/2016	323		370	436	311	214	272
6/30/2016		742					
8/18/2016	310						
8/19/2016						230	290
8/22/2016		670	350	290	390		
10/18/2016			340	200	300	190	270
10/19/2016	330 (D)	700					
12/7/2016	370	720			310	230	300
12/8/2016			350	370			
2/15/2017	350						260
2/16/2017		600	340	350	310	200	
4/13/2017	390	640	350	380	300	220	300
6/27/2017	350						
6/28/2017		540	340	320	290	190	250
10/12/2017	380	640	370	350	290	230	280
6/7/2018	360			320	260	210	220
6/8/2018		820	320				
10/18/2018		1200 (D)		370 (D)			
12/14/2018	390						
12/17/2018			250		310	260	30
4/2/2019	400	1700	420	370	300	240	250
9/17/2019	380	1600	400	320	290		
9/18/2019						470	490
3/23/2020			390	330	330		
3/24/2020	430					250	210
3/26/2020		1600					

# Time Series

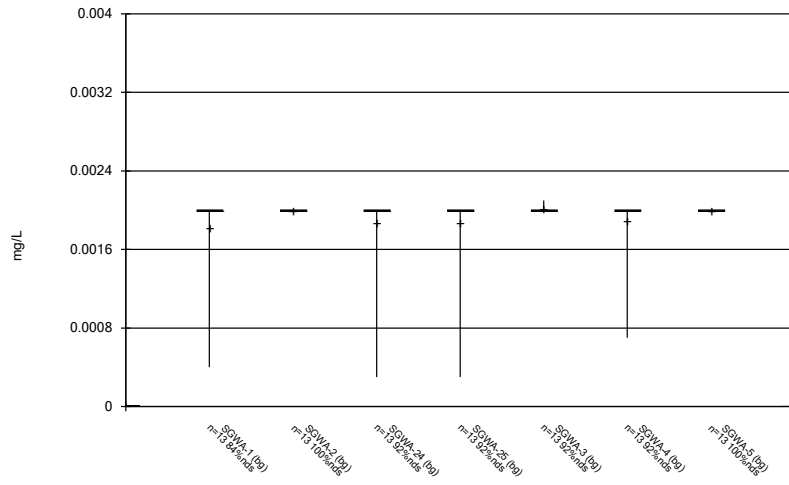
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/16/2020 2:48 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	104	222	330	527
6/27/2016	112	275	423	
6/29/2016				562
8/17/2016	86	220	410	
8/22/2016				500
10/17/2016	60		370	
10/18/2016		210		490
12/6/2016	90	250	420	
12/7/2016				510
2/14/2017	54	210	370	
2/16/2017				520
4/12/2017	64	200	370	
4/13/2017				590
6/27/2017	40	180	380	550
10/11/2017	82	210		
10/12/2017			400	560
6/6/2018	100	210	410	590
12/14/2018	44	170	390	
12/17/2018				510
4/1/2019		200	370	580
4/2/2019	91			
9/16/2019	76			550
9/17/2019		140	380	
3/25/2020	94		360	540
3/26/2020		180		

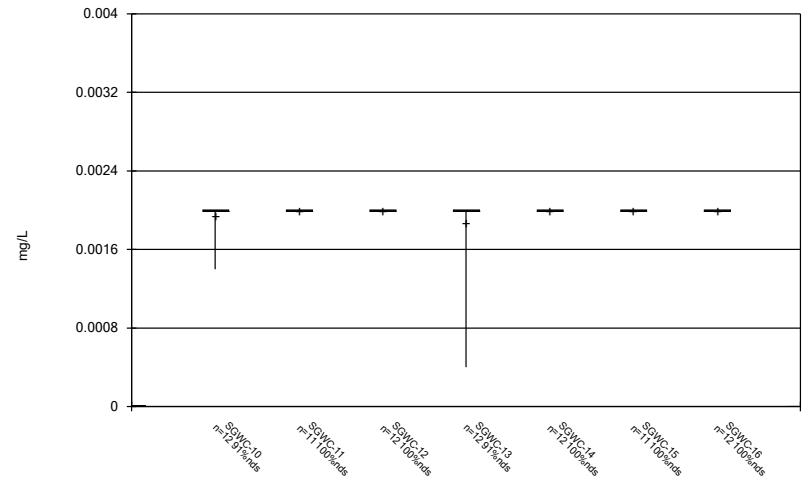
FIGURE B.

### Box & Whiskers Plot



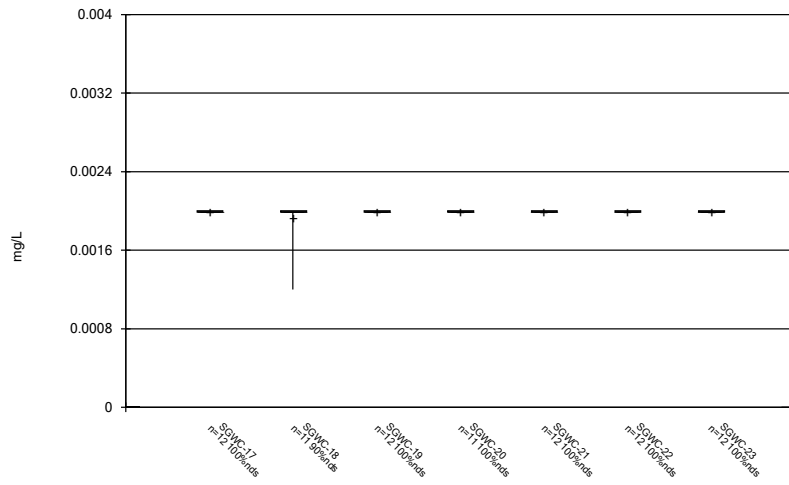
Constituent: Antimony Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



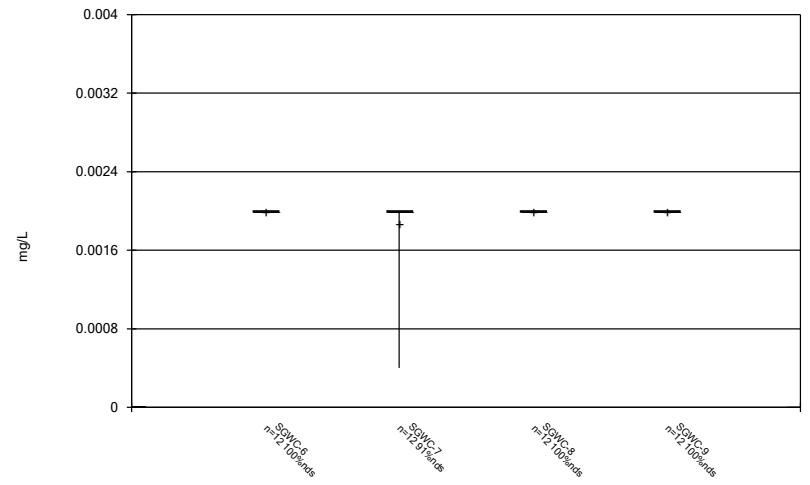
Constituent: Antimony Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



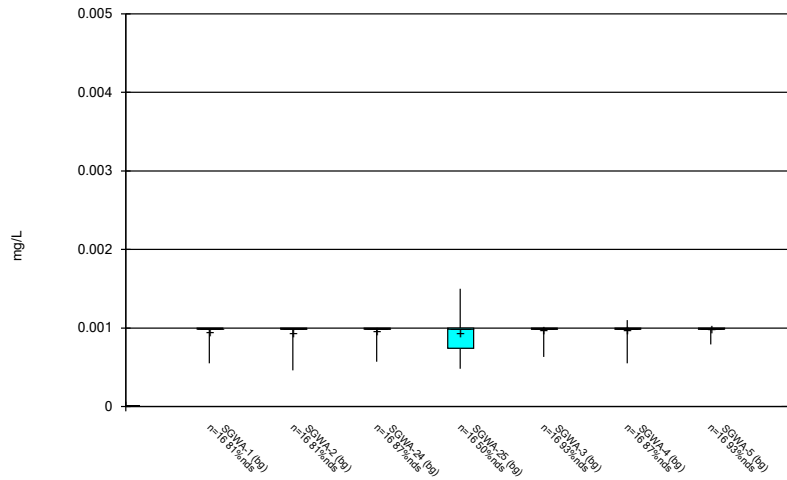
Constituent: Antimony Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



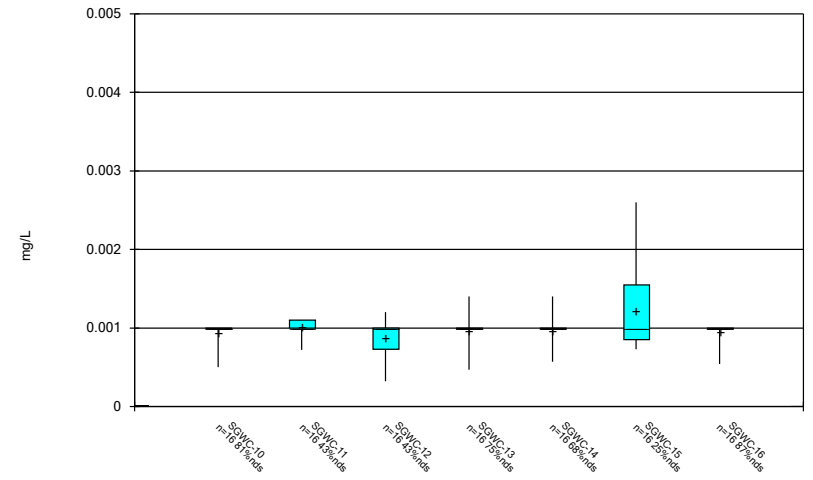
Constituent: Antimony Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



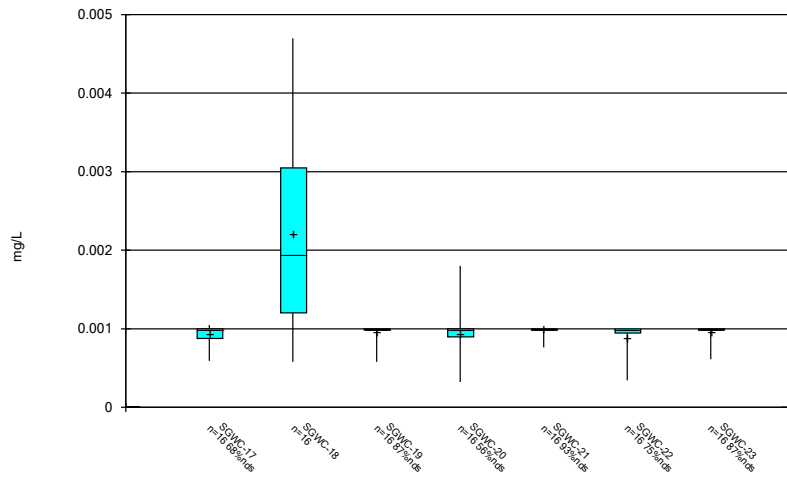
Constituent: Arsenic Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



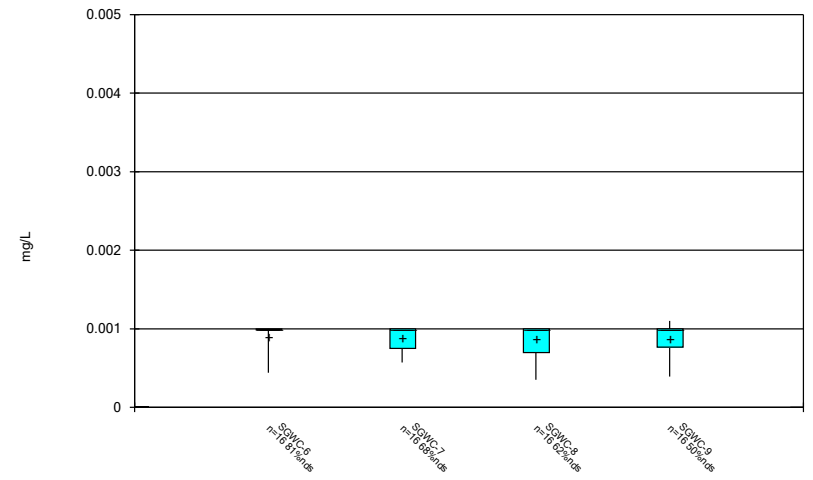
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



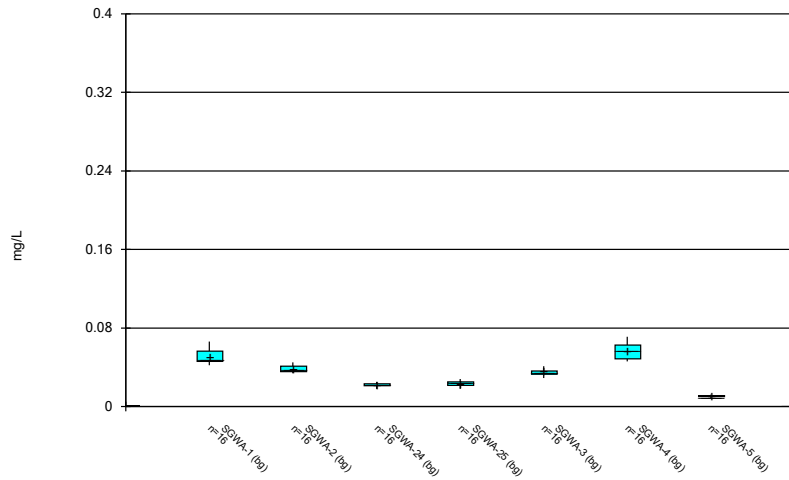
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



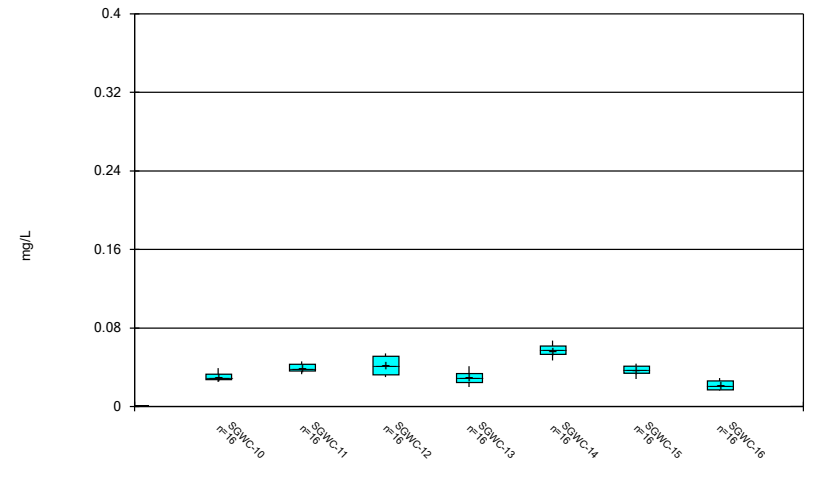
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



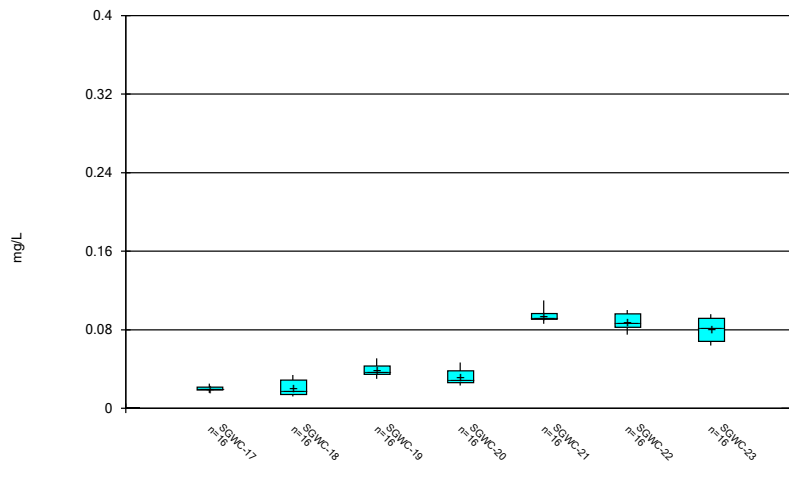
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



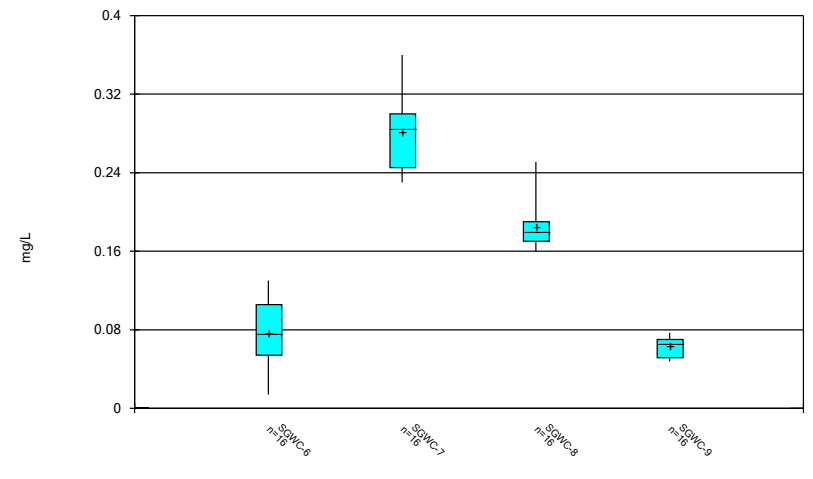
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



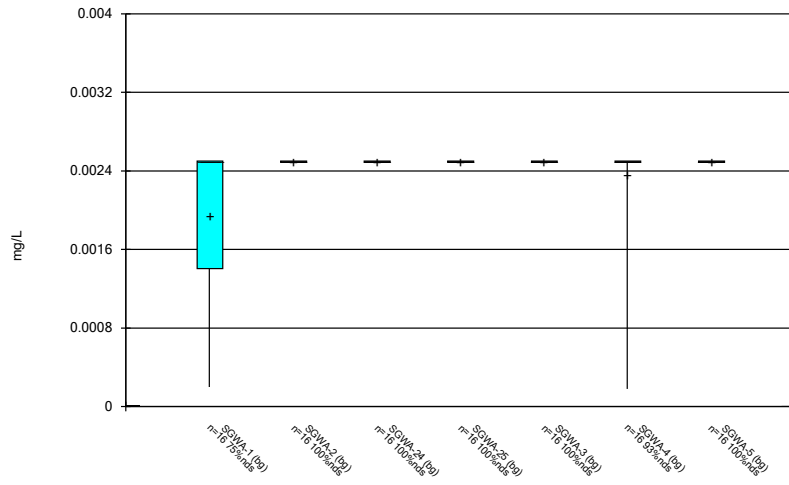
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



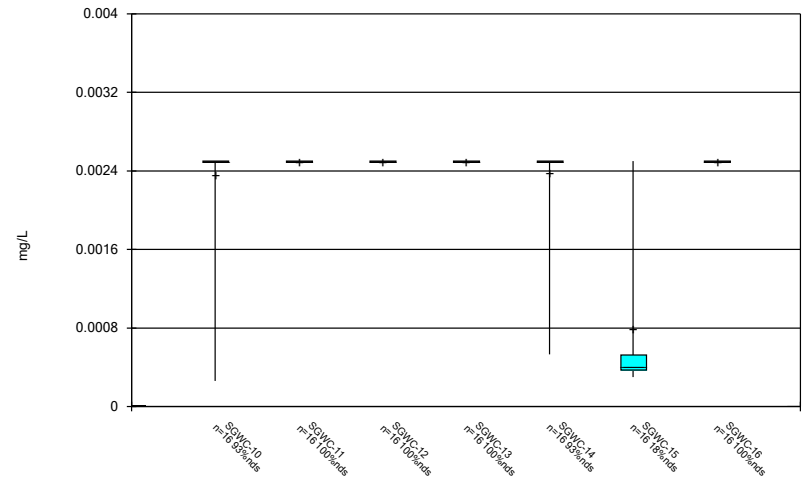
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



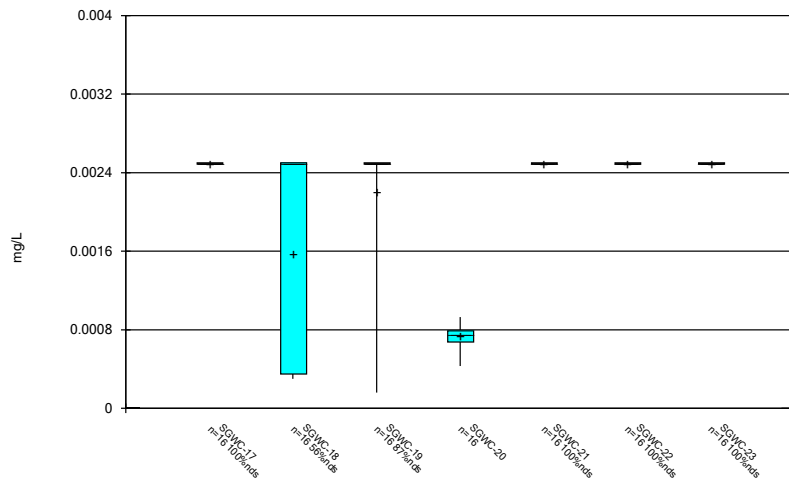
Constituent: Beryllium Analysis Run 6/16/2020 2:49 PM  
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### Box & Whiskers Plot



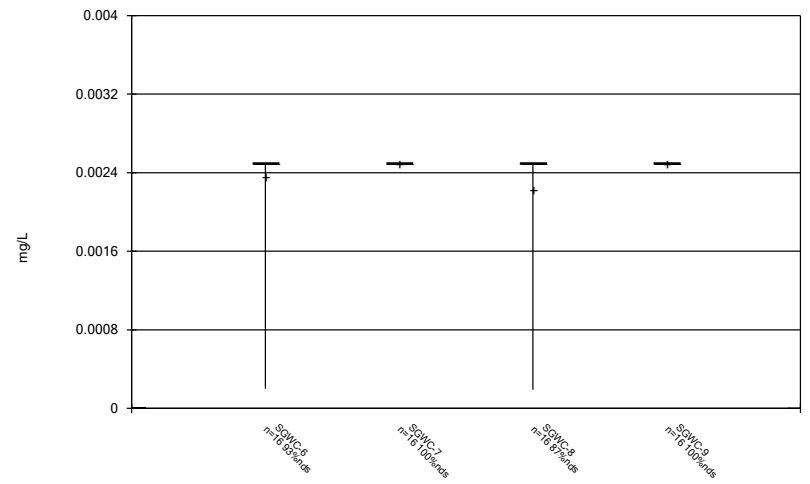
Constituent: Beryllium Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



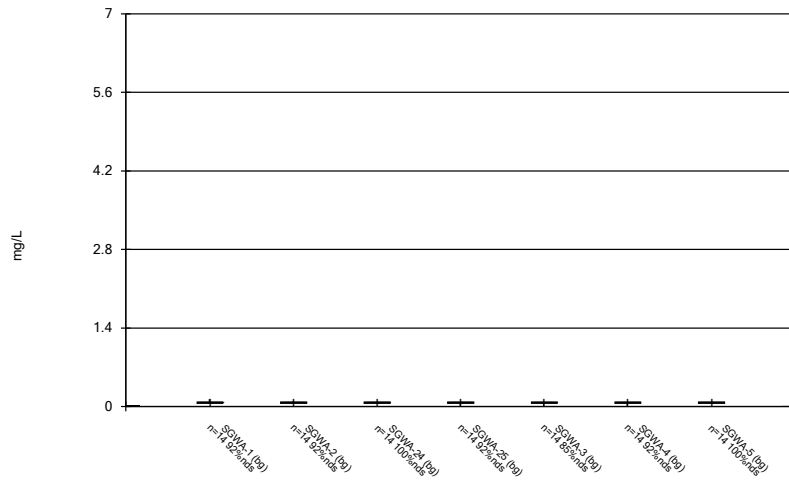
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### Box & Whiskers Plot



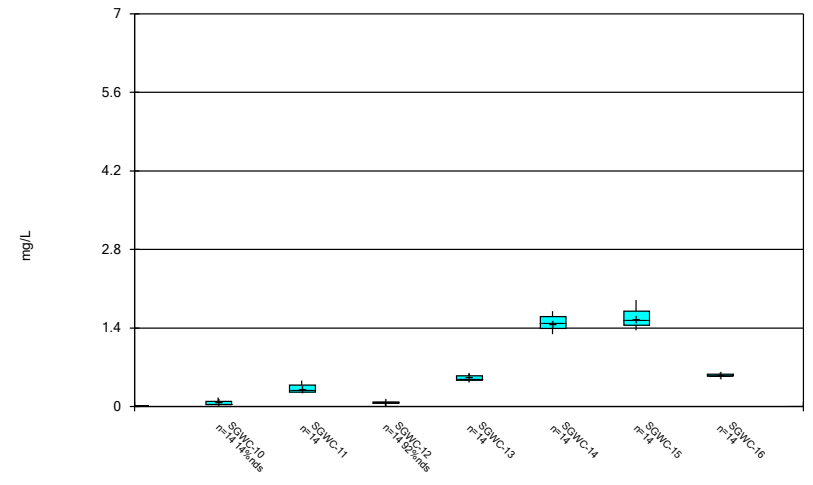
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Box & Whiskers Plot



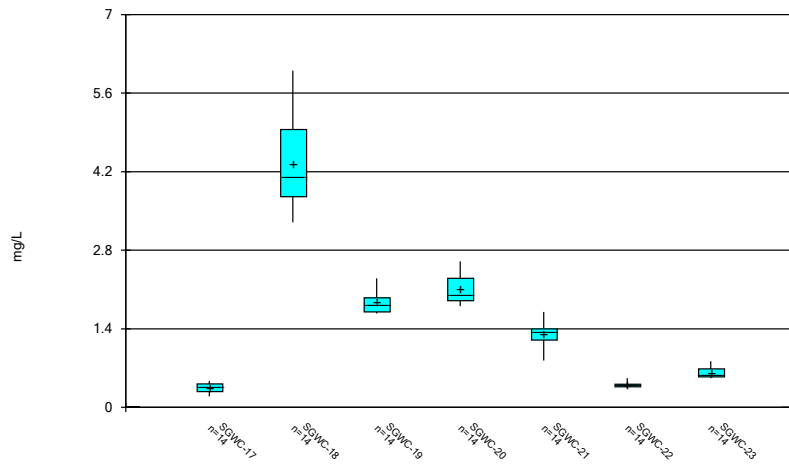
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



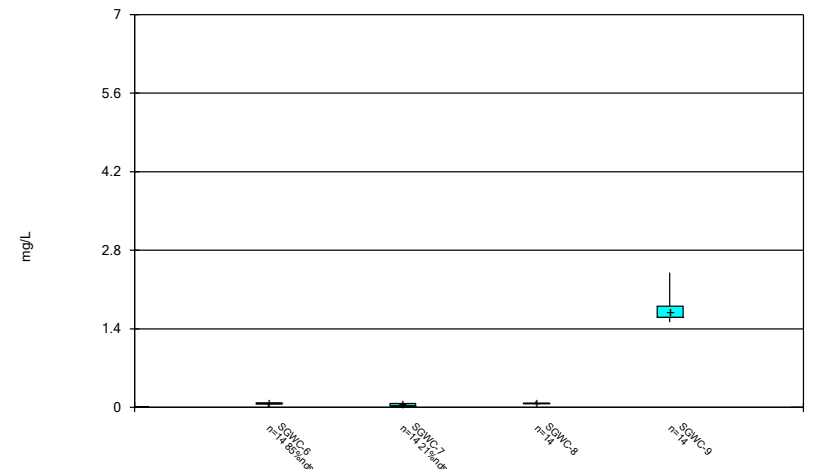
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



Constituent: Boron, total Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

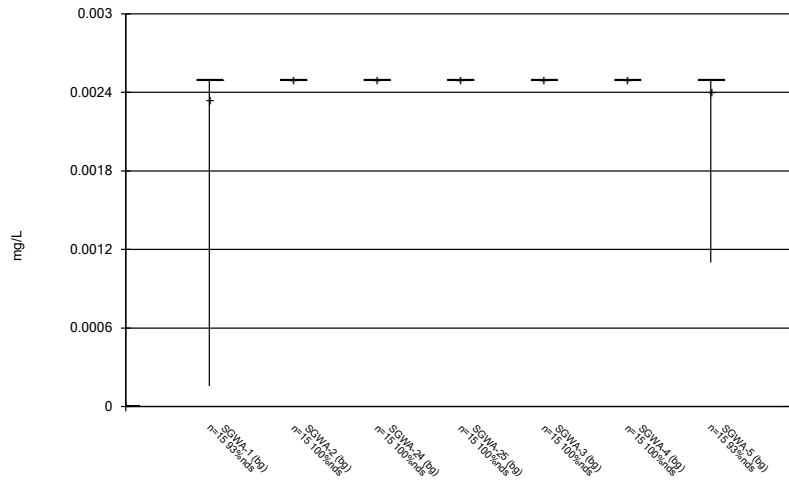
Box & Whiskers Plot



Constituent: Boron, total Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

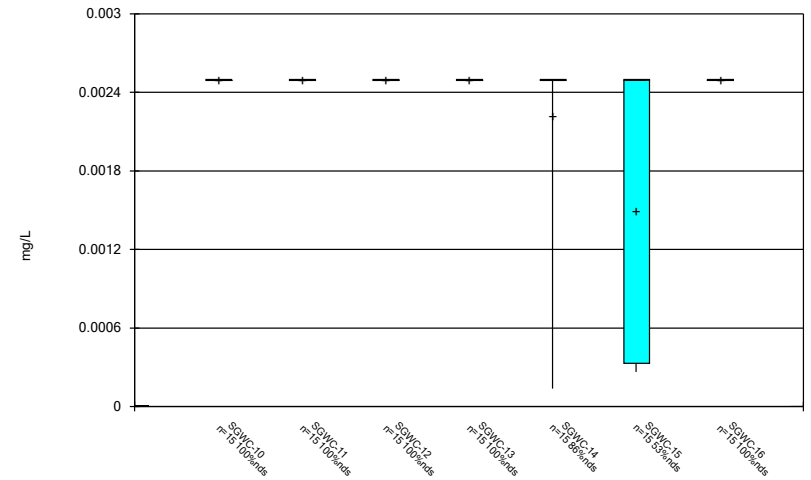


Box & Whiskers Plot



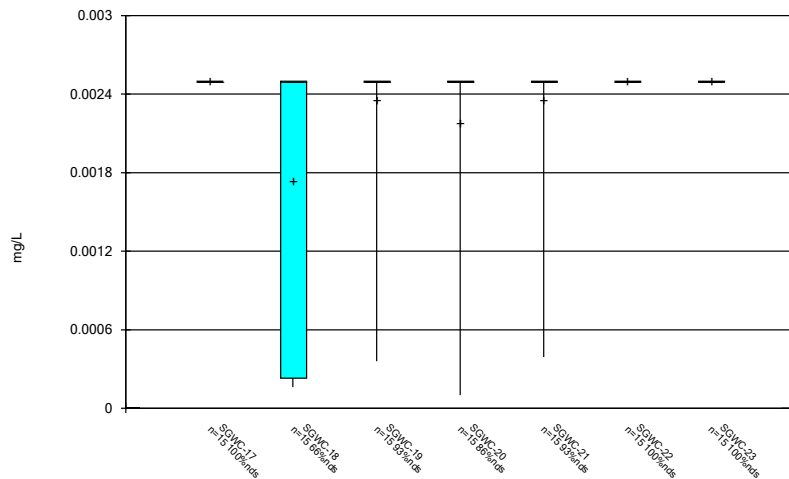
Constituent: Cadmium Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



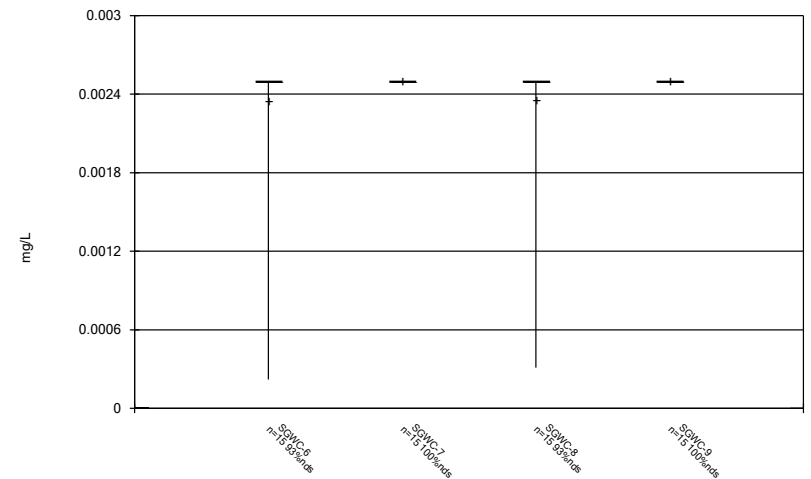
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



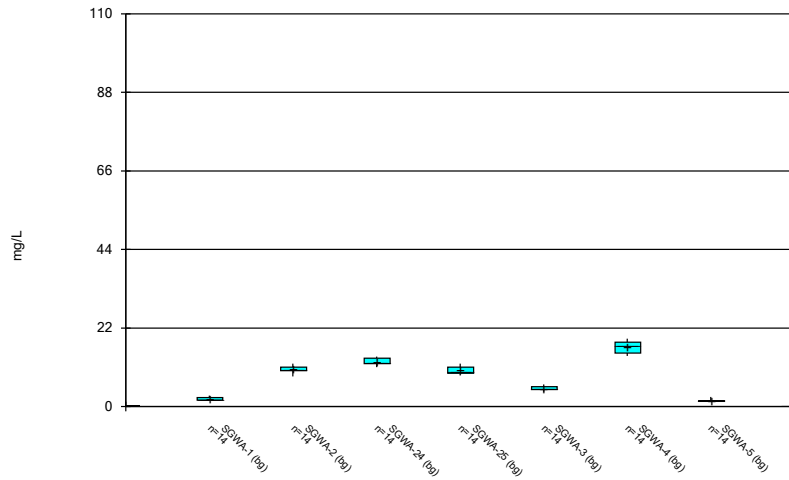
Constituent: Cadmium Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



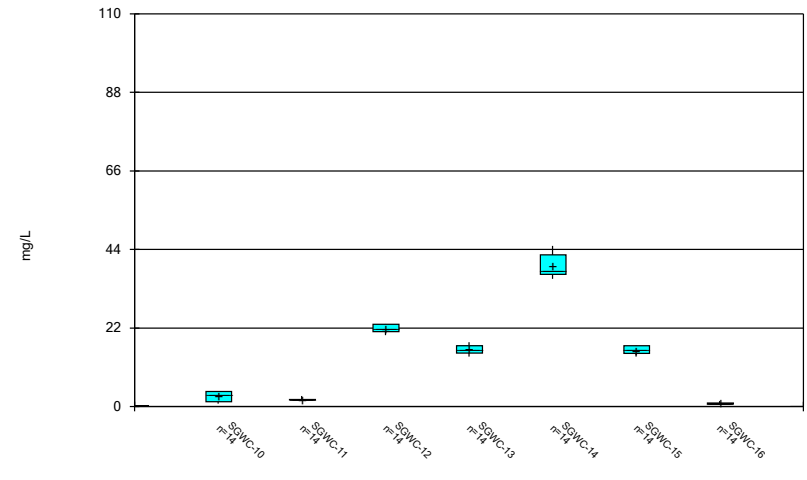
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



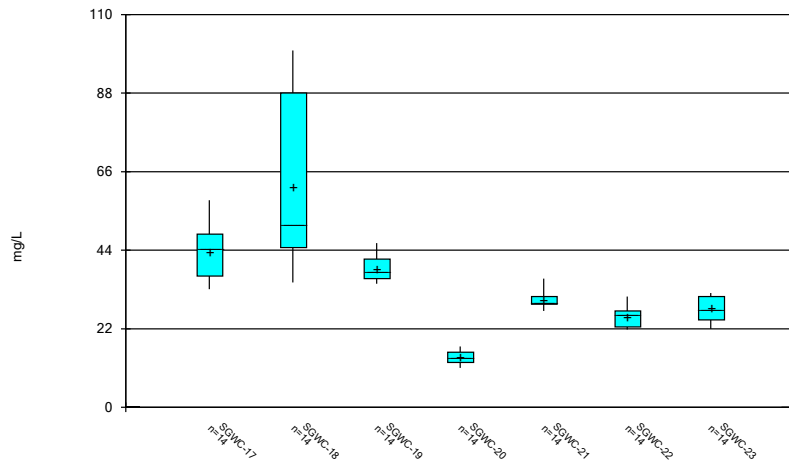
Constituent: Calcium, total Analysis Run 6/16/2020 2:49 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



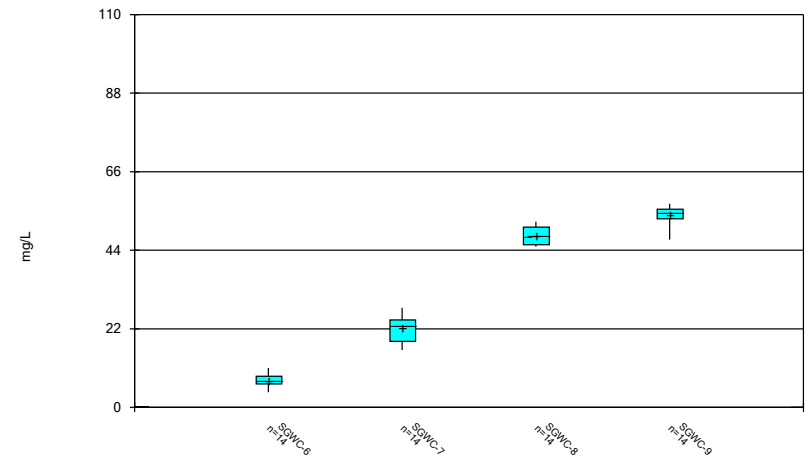
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### Box & Whiskers Plot



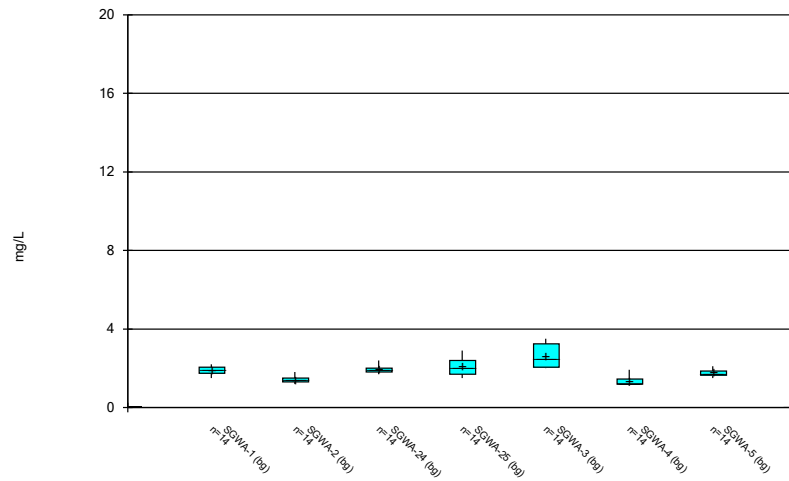
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Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



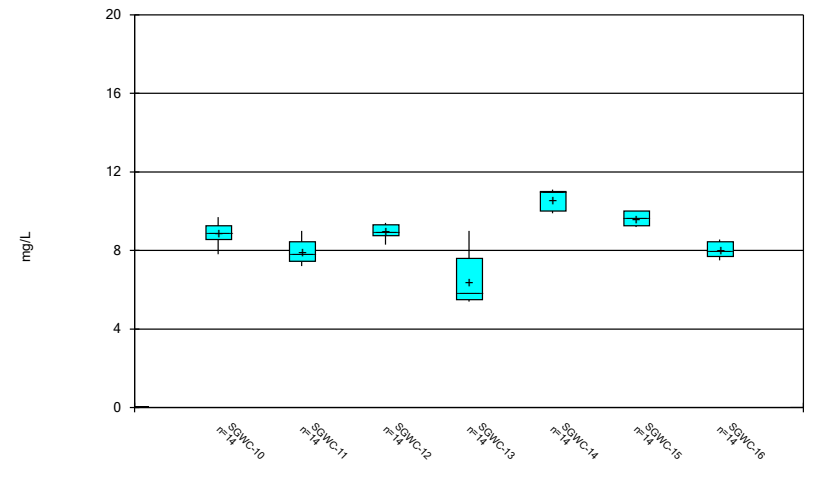
Constituent: Calcium, total Analysis Run 6/16/2020 2:49 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



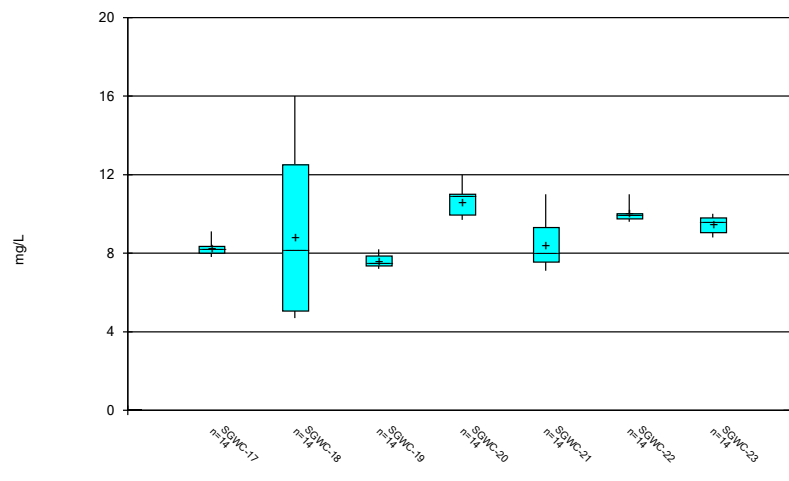
Constituent: Chloride, Total Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



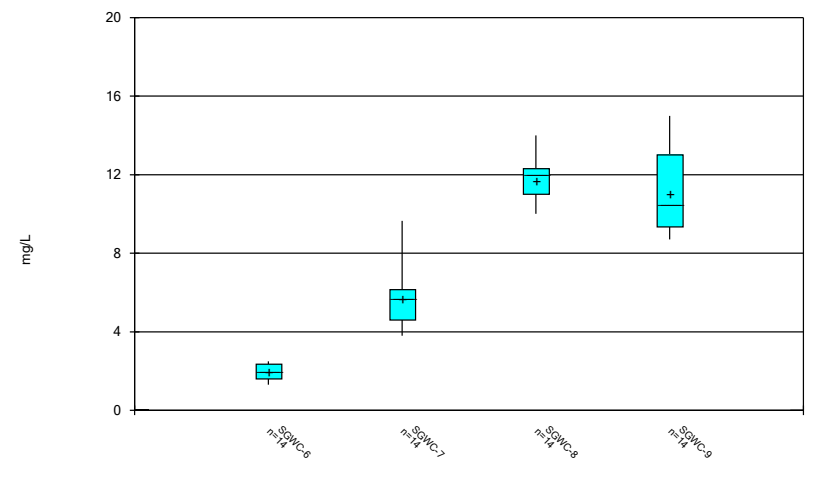
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### Box & Whiskers Plot



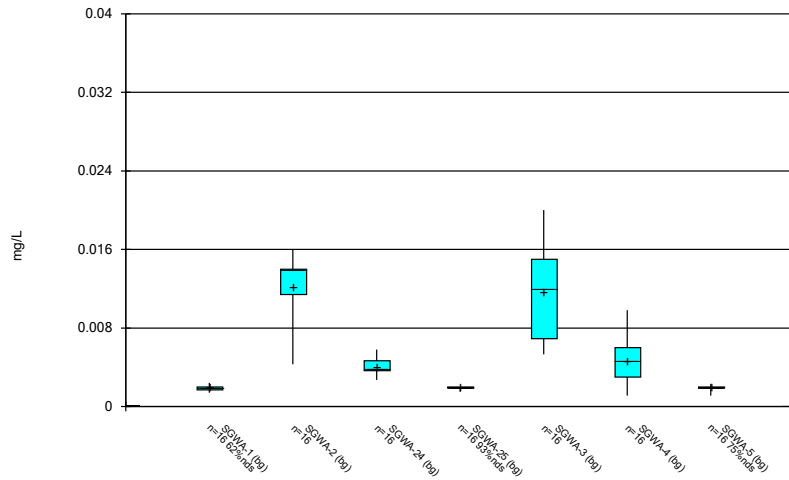
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### Box & Whiskers Plot



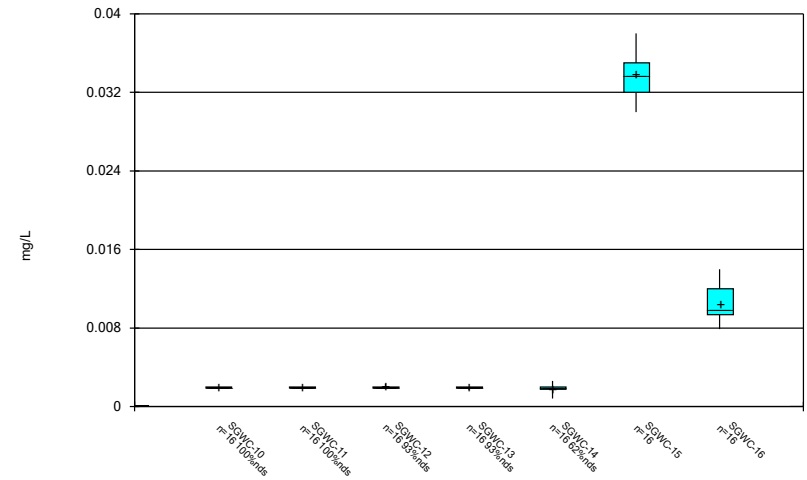
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Box & Whiskers Plot



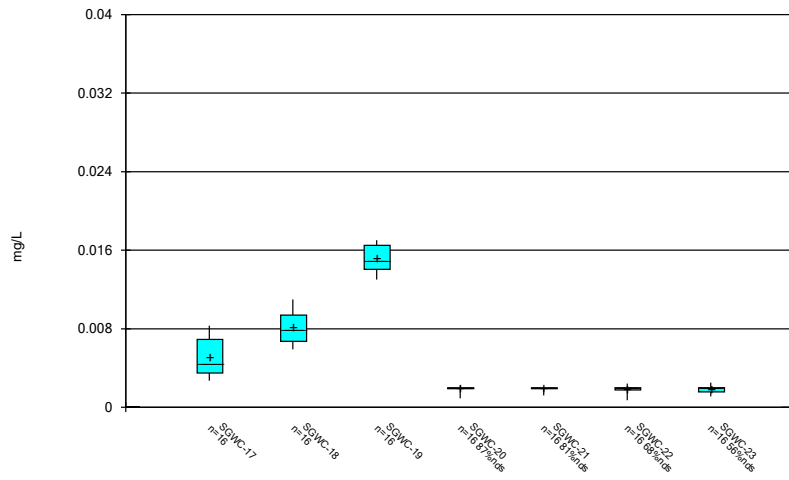
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Box & Whiskers Plot



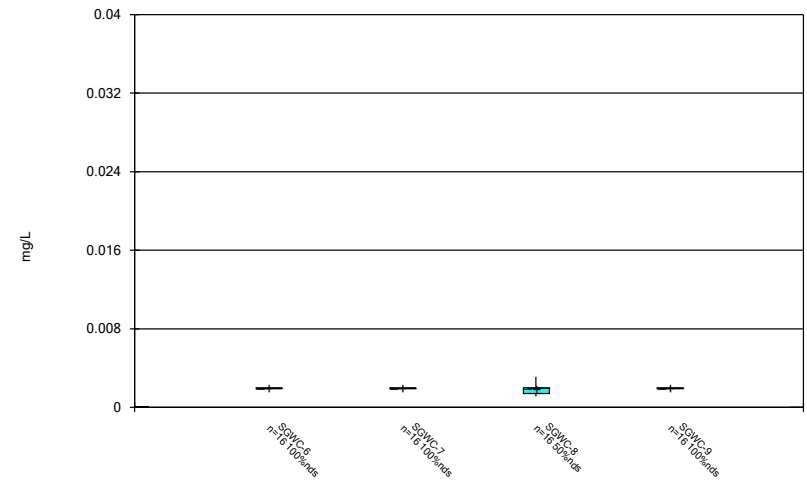
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Box & Whiskers Plot



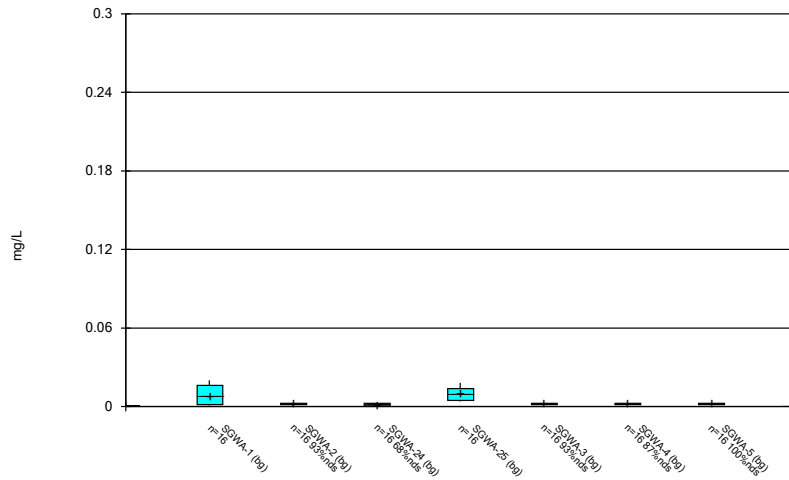
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Box & Whiskers Plot



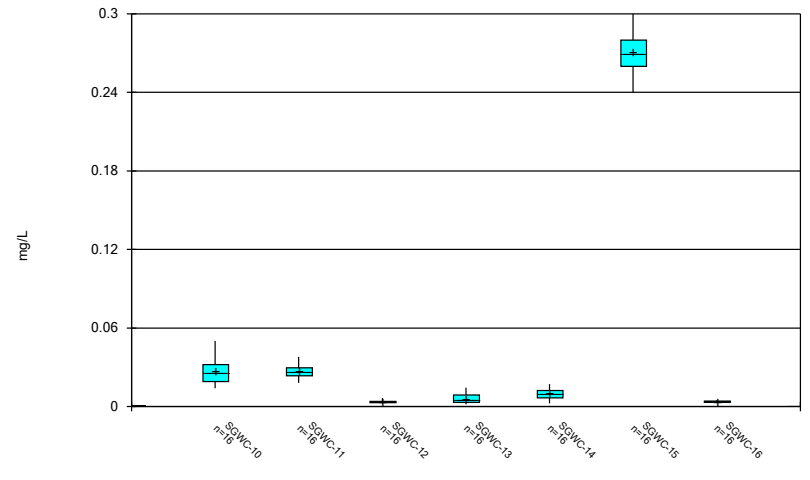
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



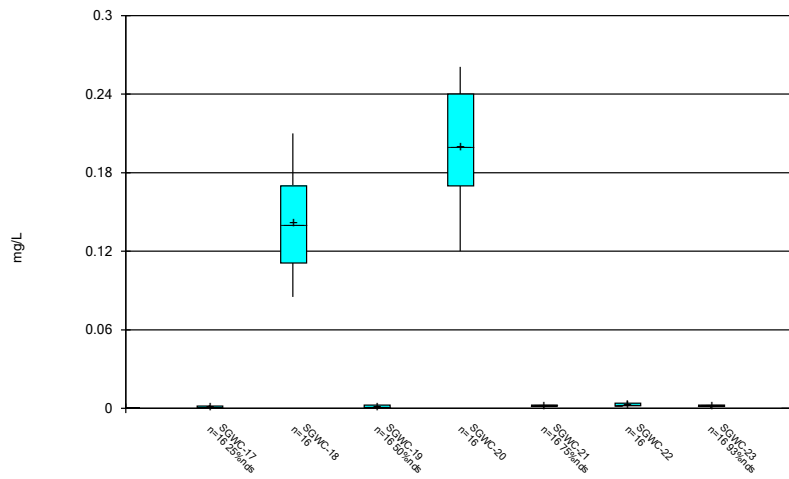
Constituent: Cobalt Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



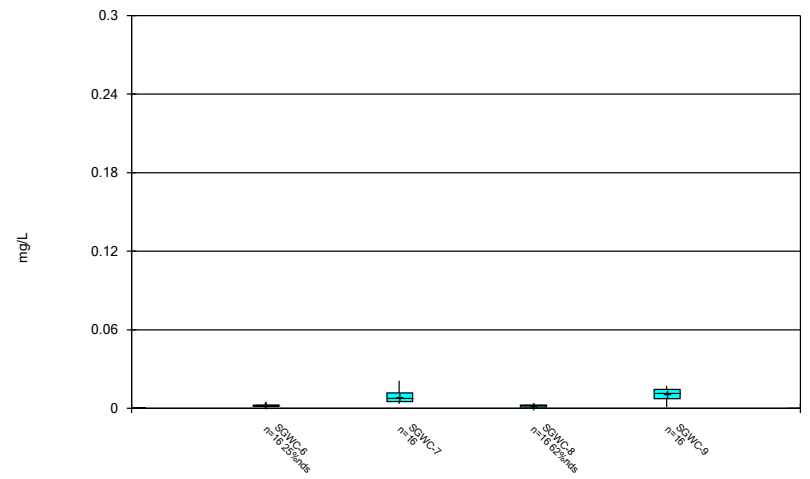
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



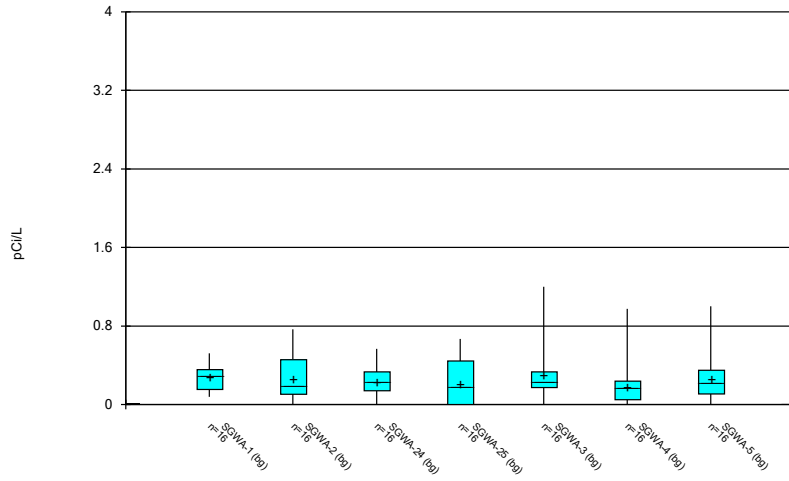
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



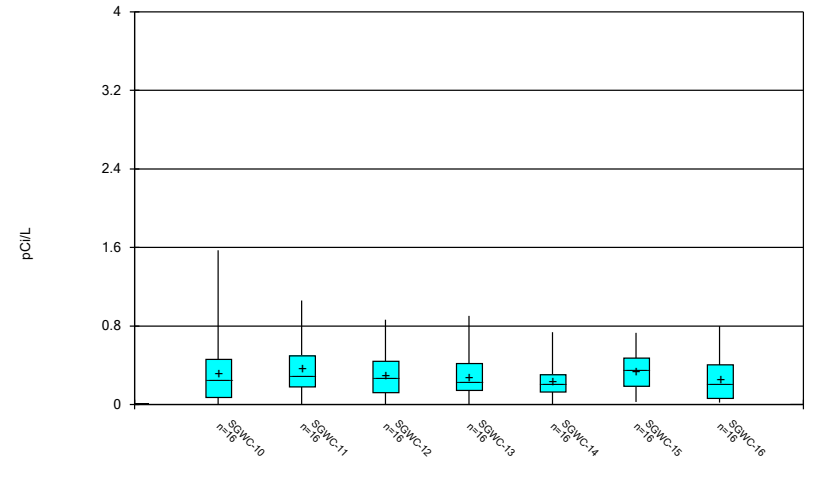
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### Box & Whiskers Plot



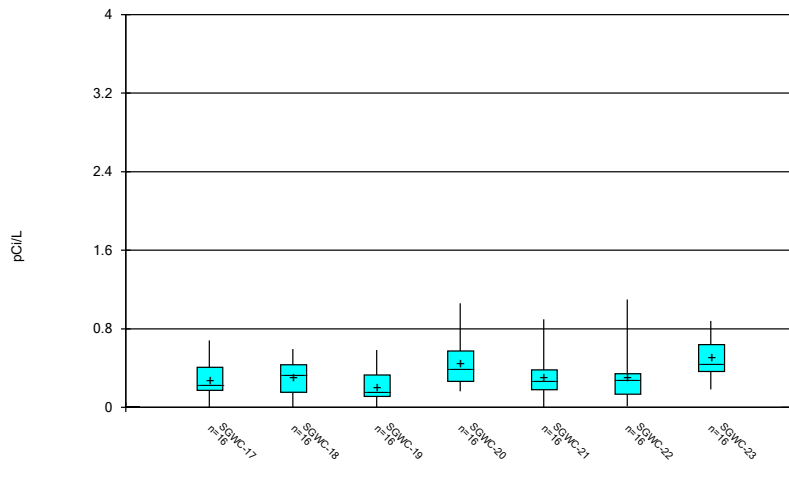
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:49 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



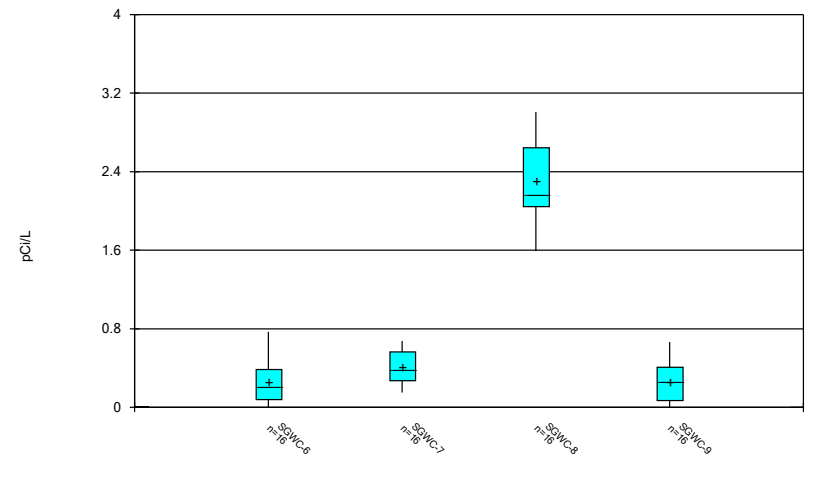
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:49 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



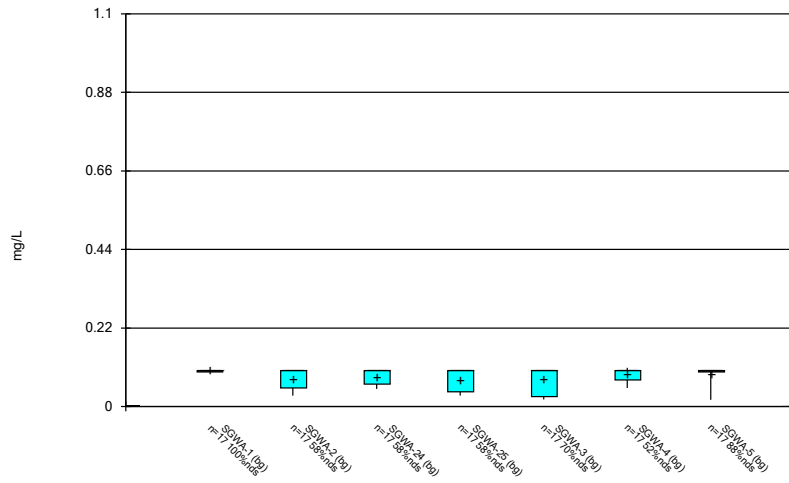
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:49 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



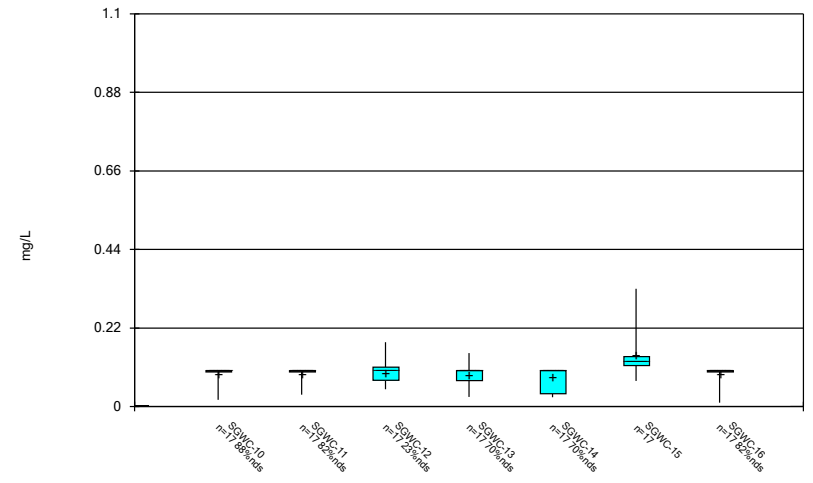
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Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



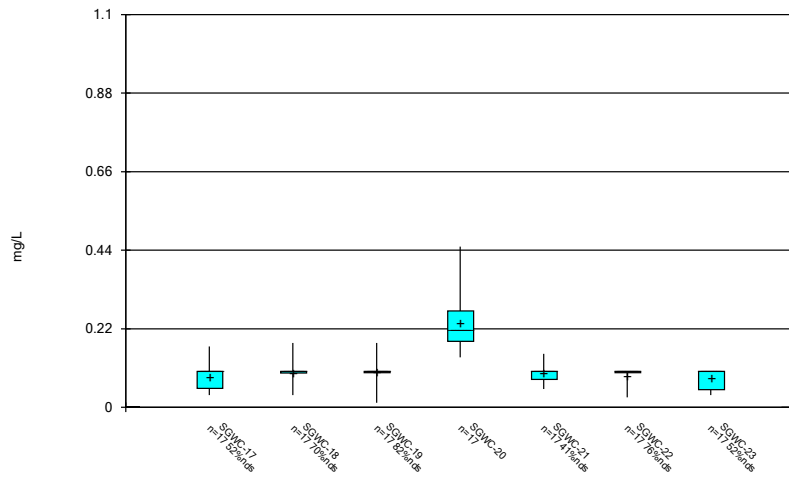
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



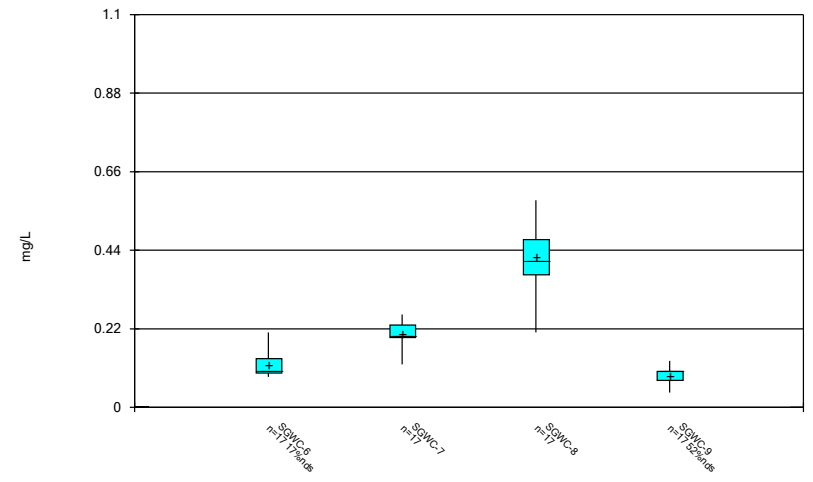
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Box & Whiskers Plot



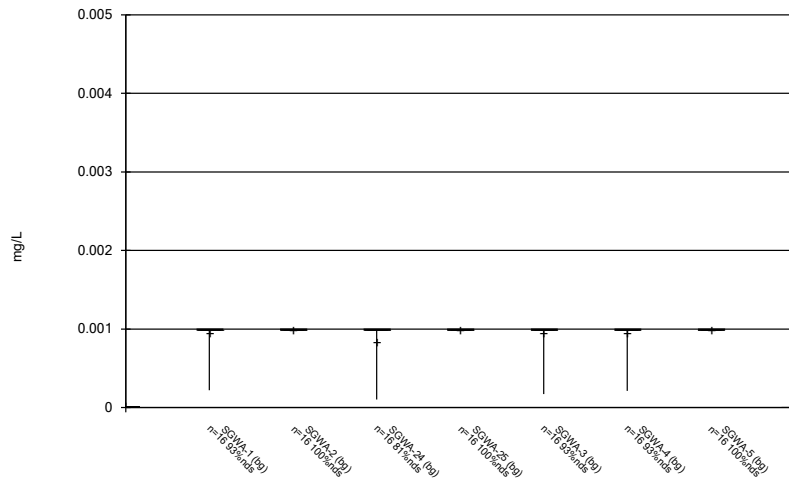
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Box & Whiskers Plot



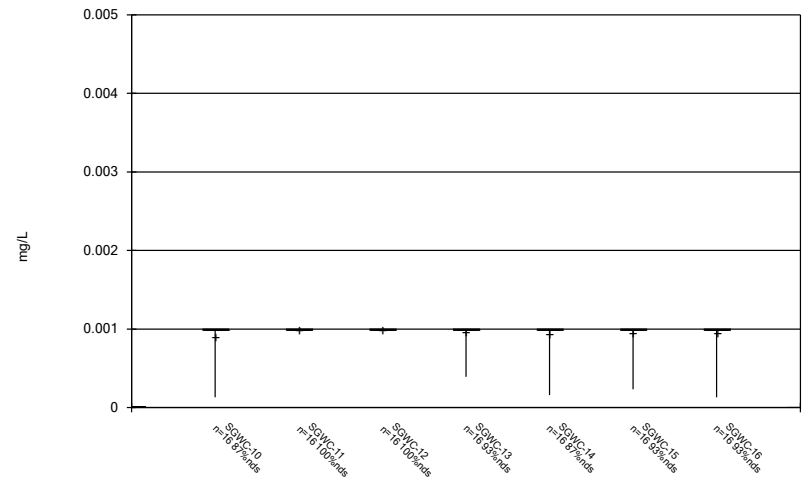
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



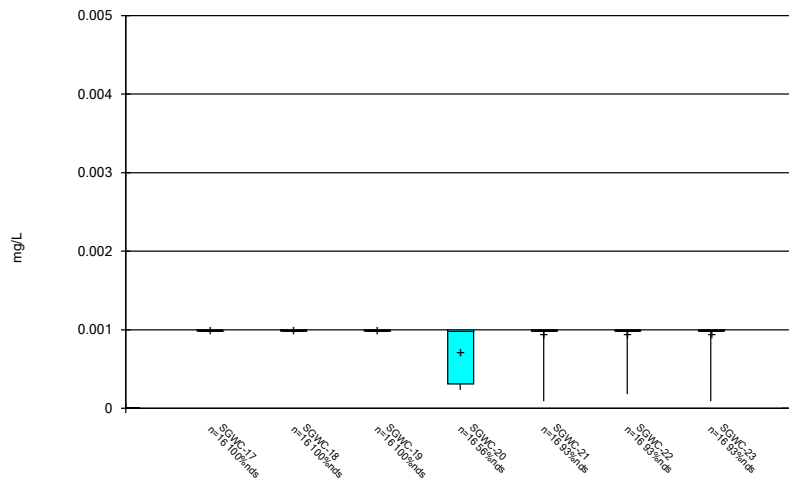
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### Box & Whiskers Plot



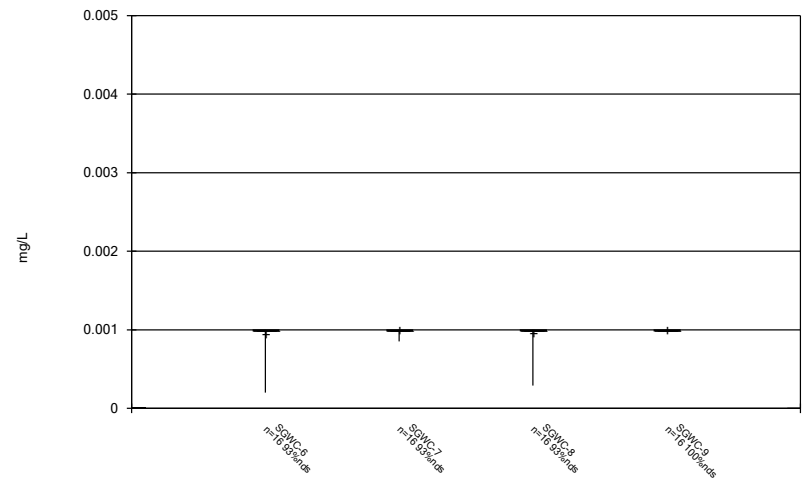
Constituent: Lead Analysis Run 6/16/2020 2:49 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



Constituent: Lead Analysis Run 6/16/2020 2:49 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

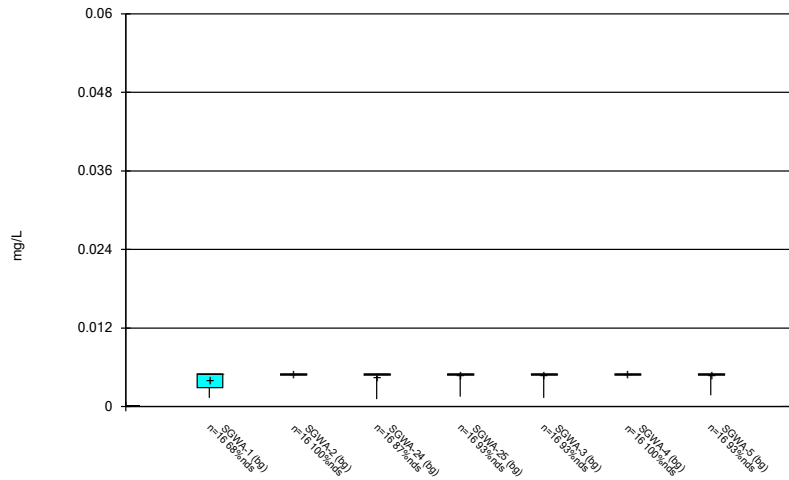
### Box & Whiskers Plot



Constituent: Lead Analysis Run 6/16/2020 2:49 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

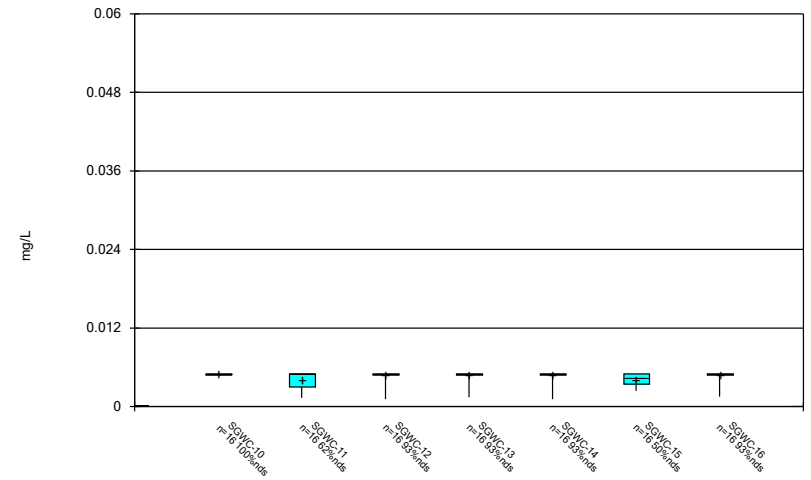


Box & Whiskers Plot



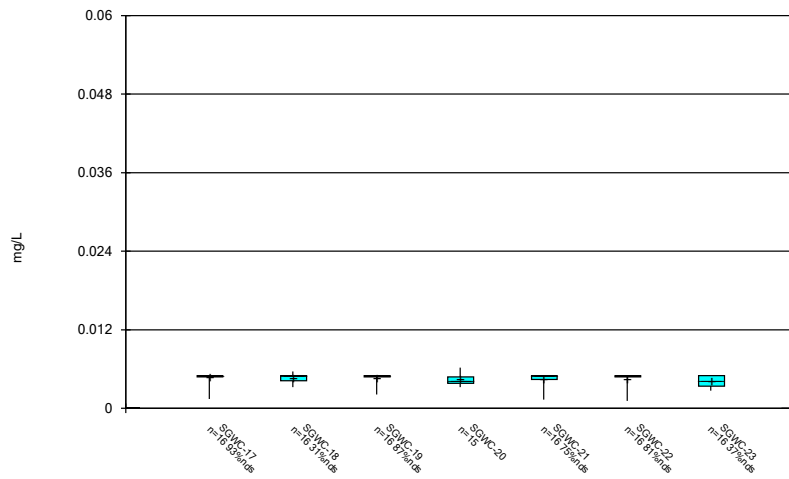
Constituent: Lithium Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



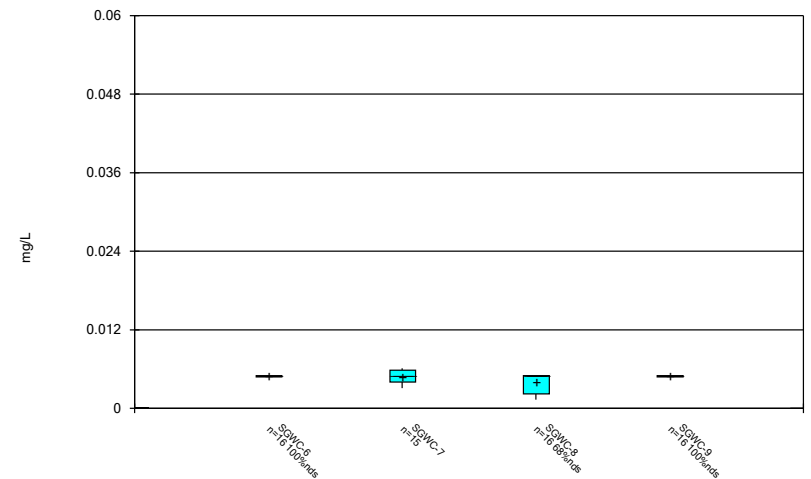
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Box & Whiskers Plot



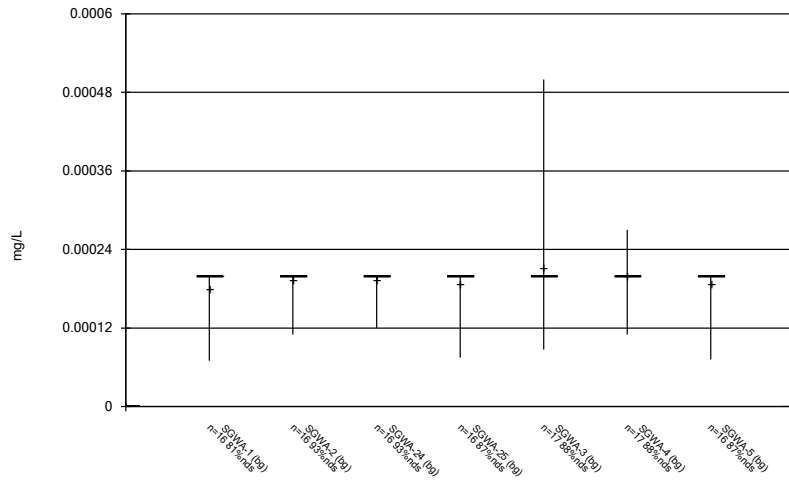
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Box & Whiskers Plot



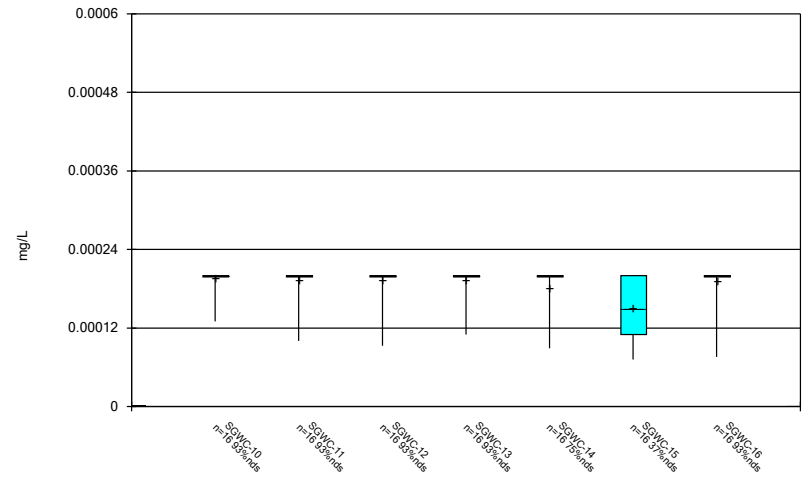
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



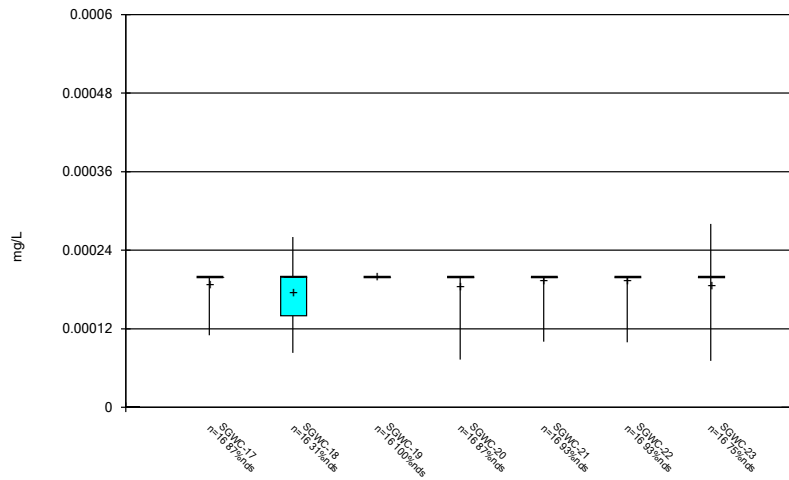
Constituent: Mercury Analysis Run 6/16/2020 2:49 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



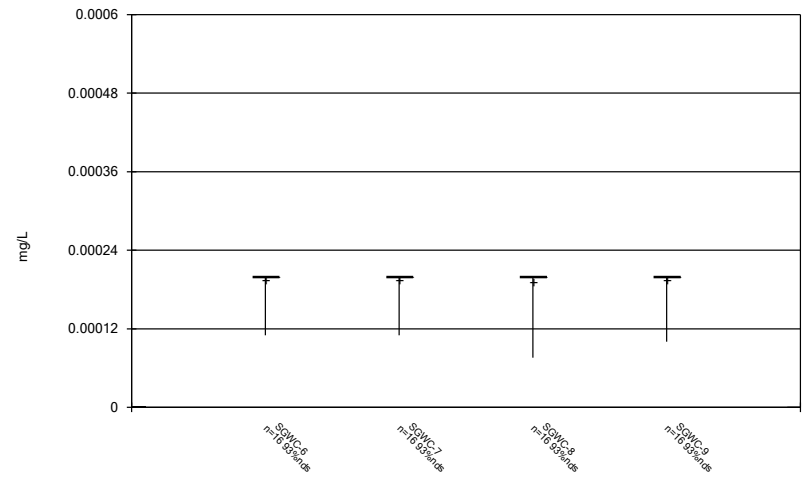
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



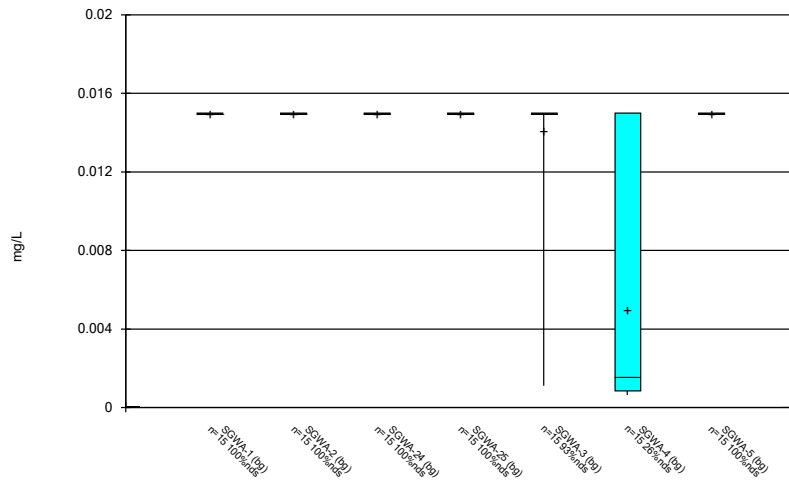
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



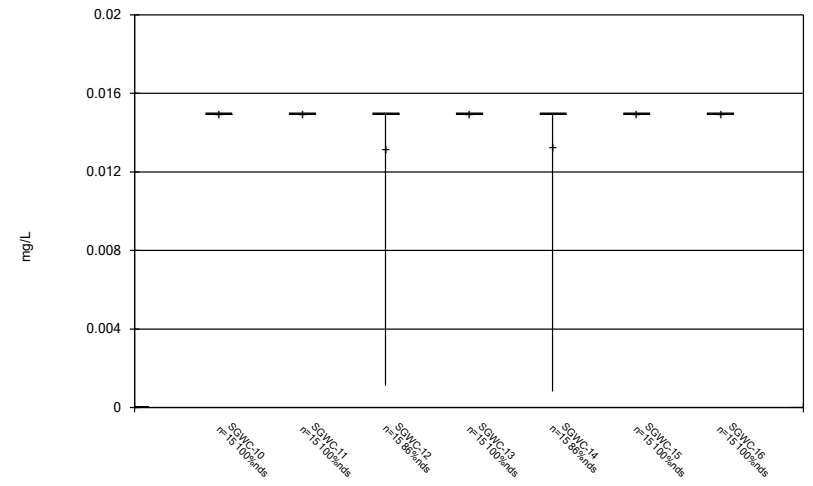
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



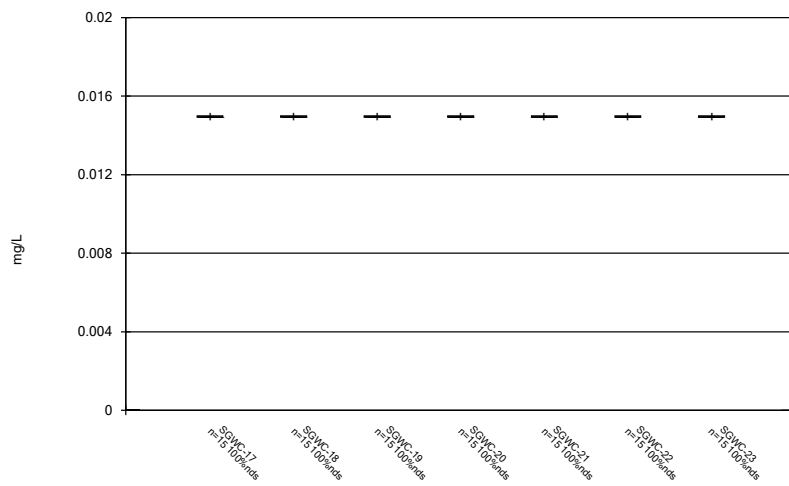
Constituent: Molybdenum Analysis Run 6/16/2020 2:50 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



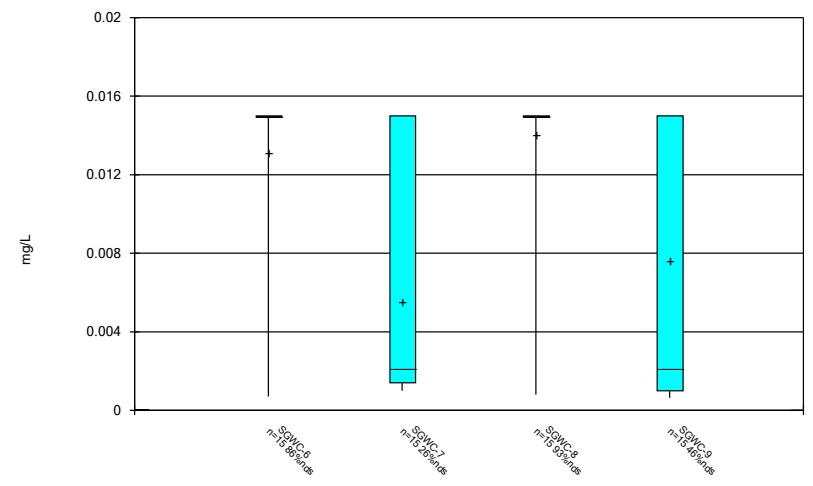
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Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



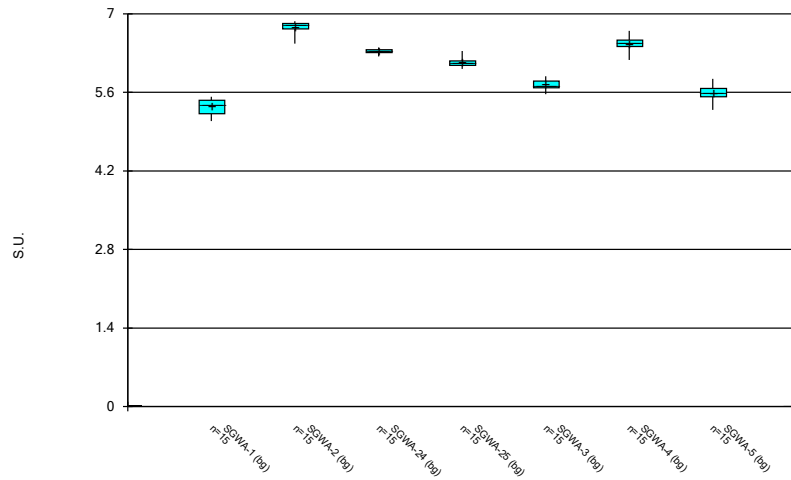
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Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



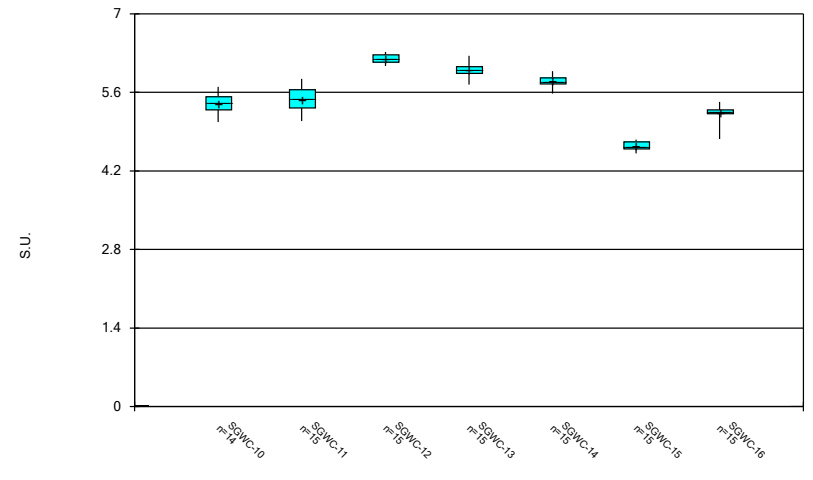
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Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



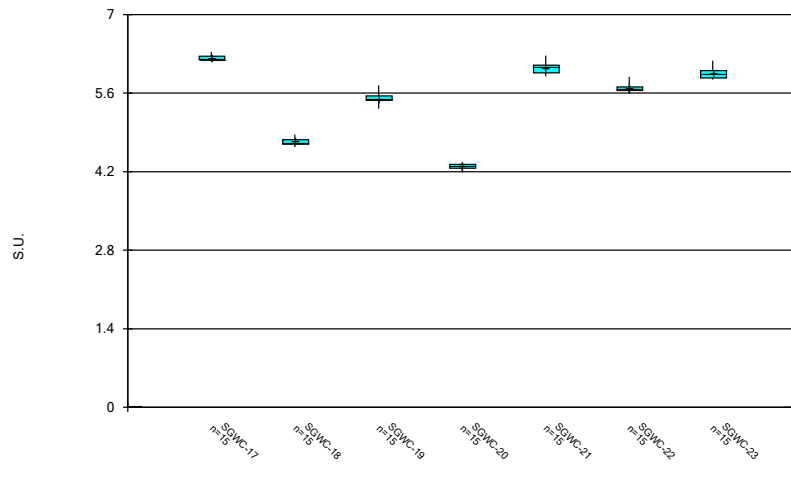
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



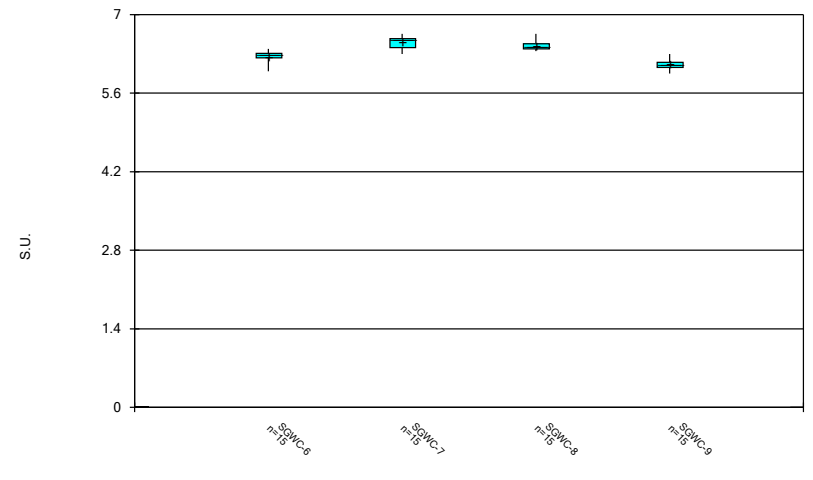
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



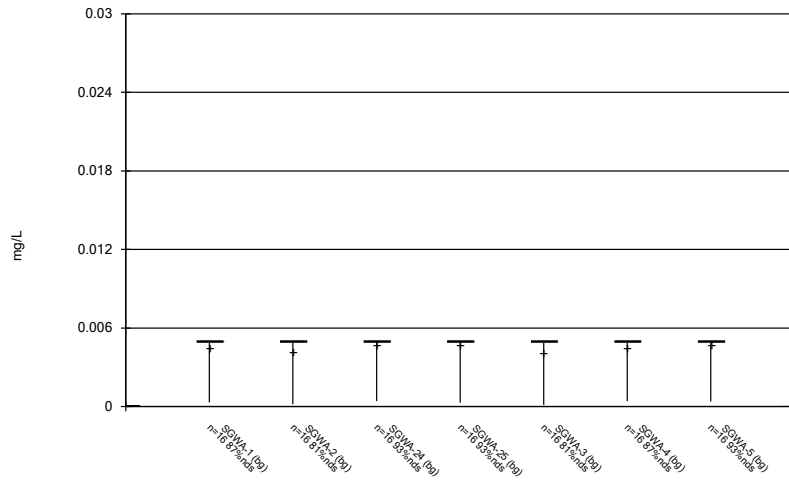
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



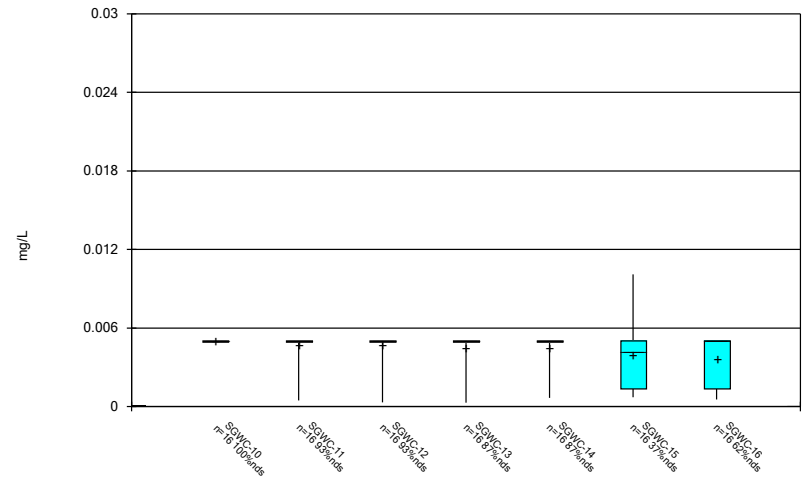
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



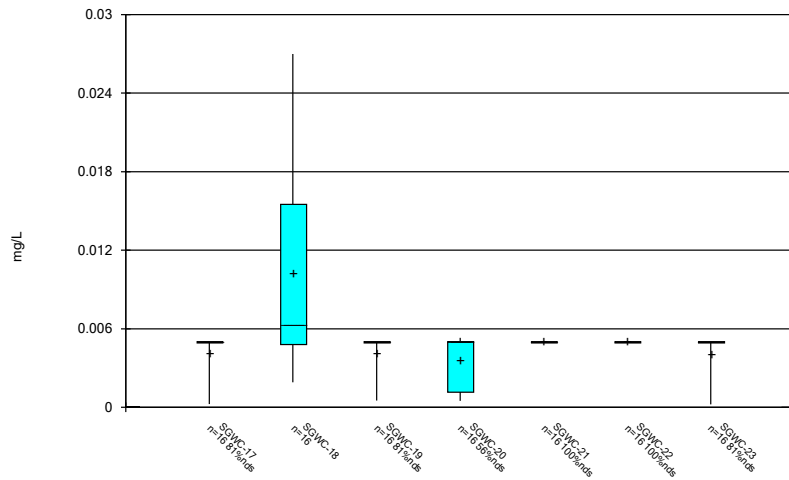
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



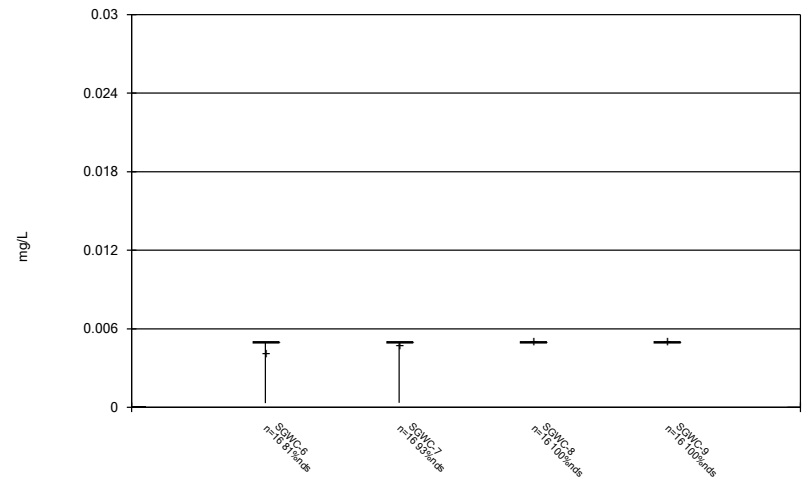
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



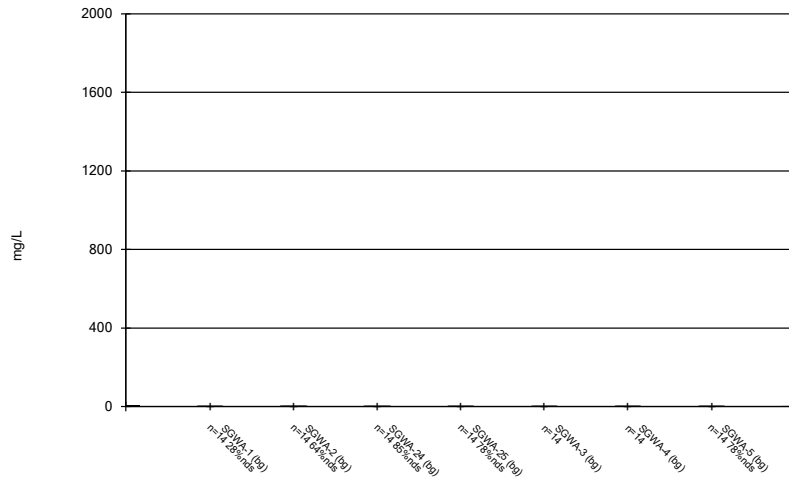
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



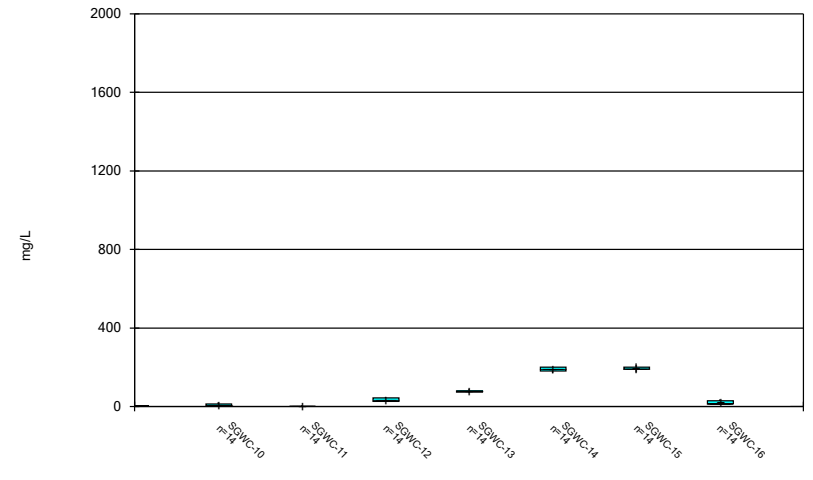
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Box & Whiskers Plot



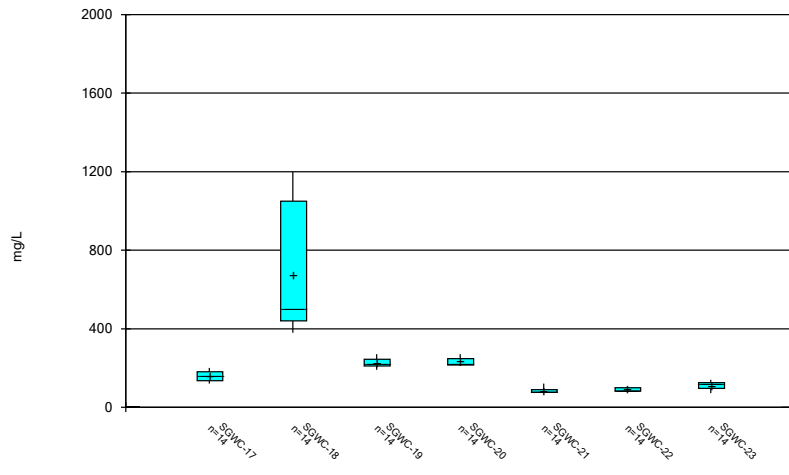
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



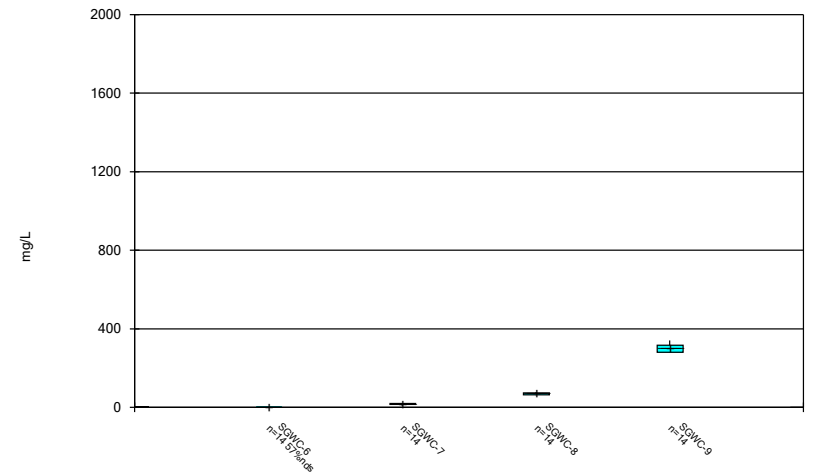
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



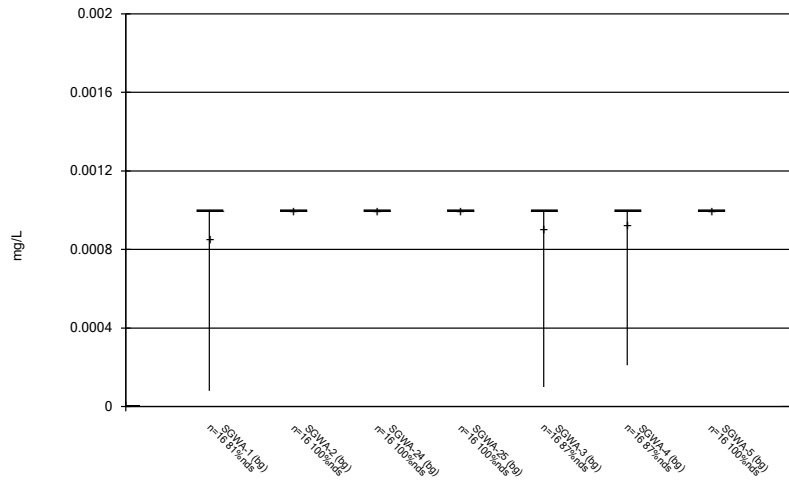
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



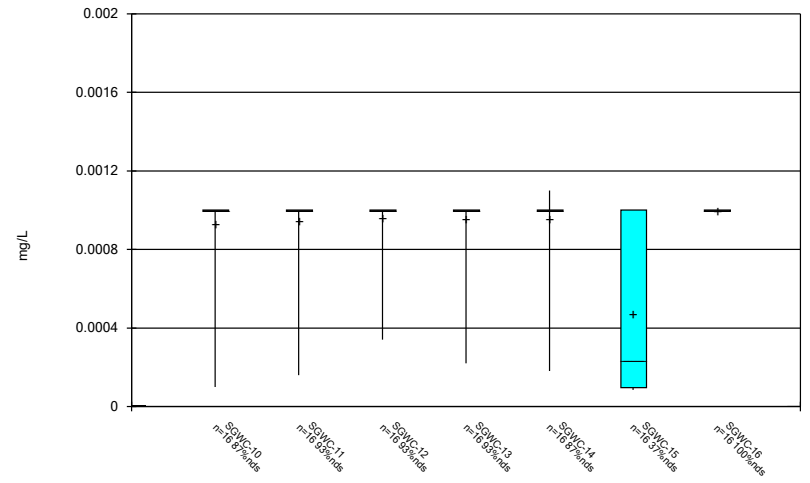
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



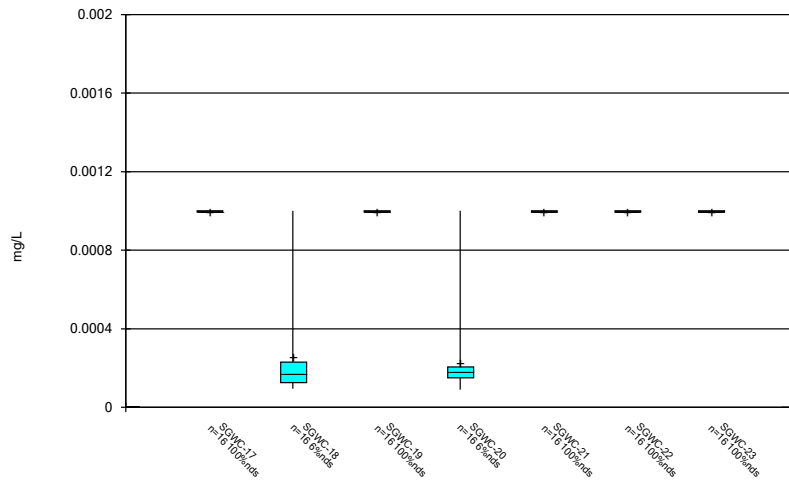
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



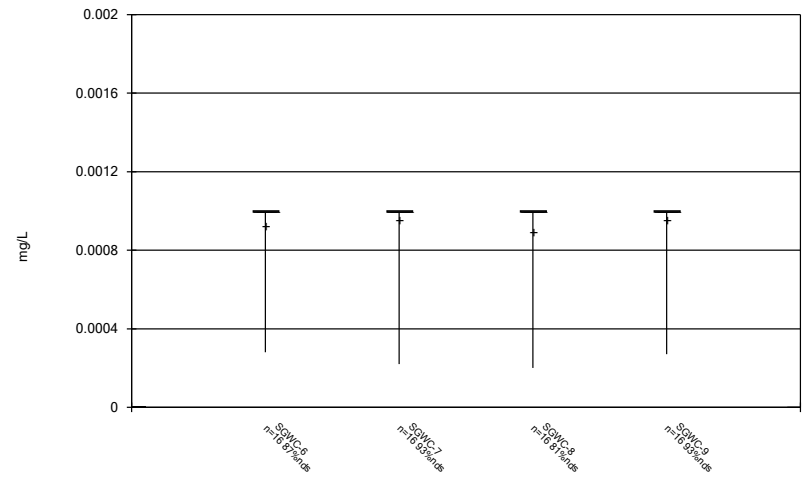
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



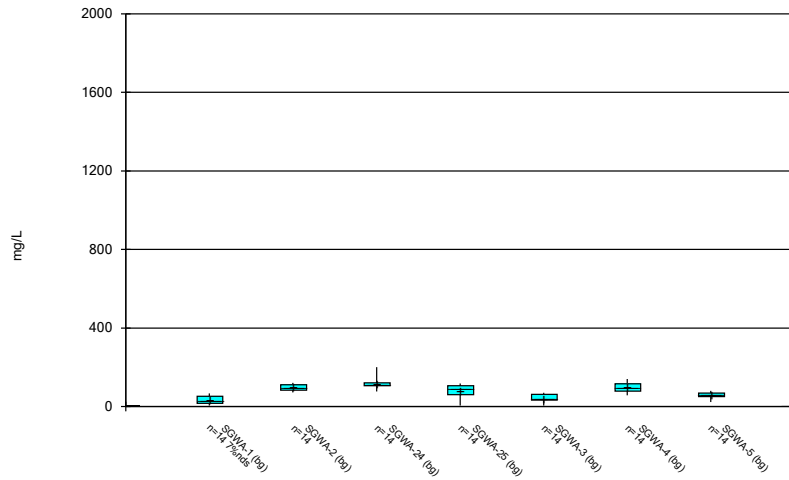
Constituent: Thallium Analysis Run 6/16/2020 2:50 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



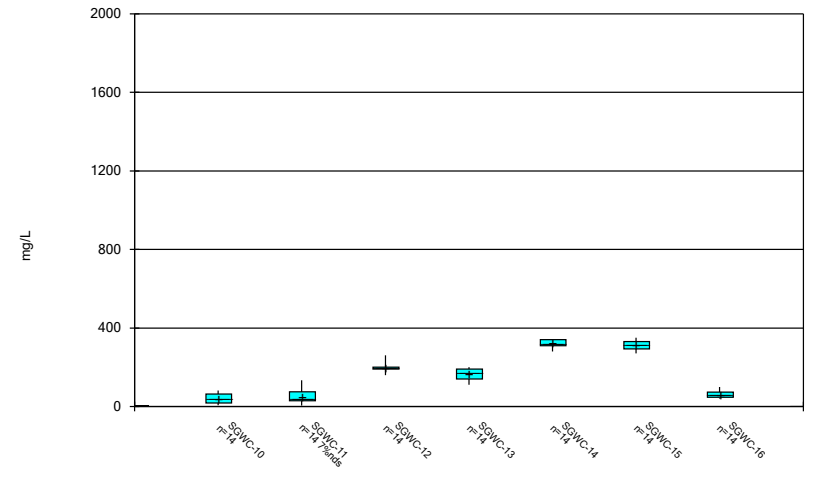
Constituent: Thallium Analysis Run 6/16/2020 2:50 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



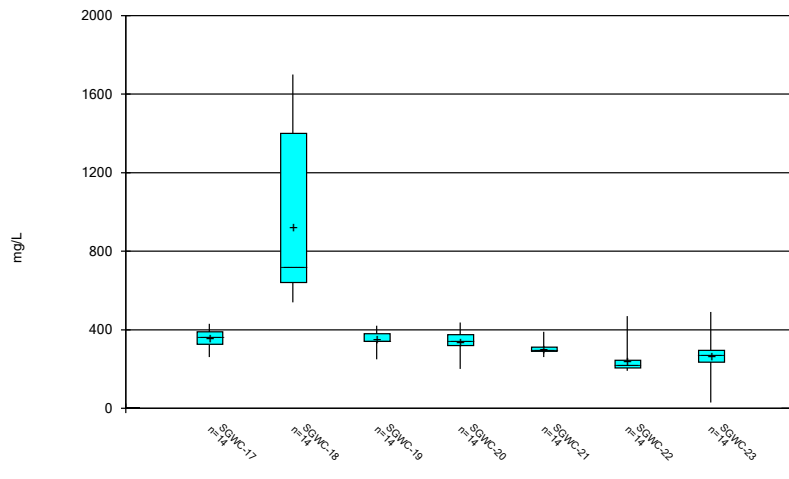
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:50 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



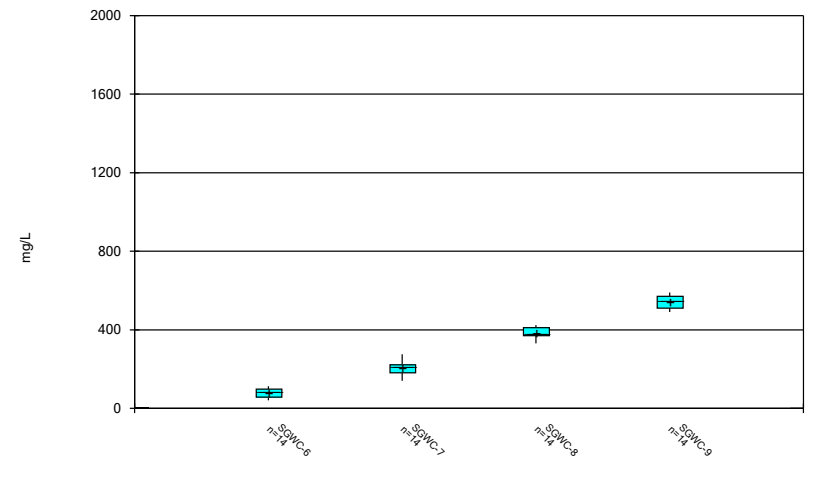
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:50 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:50 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP



FIGURE C.

# Outlier Summary

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:46 PM

	SGWC-20 Lithium (mg/L)	SGWC-7 Lithium (mg/L)
5/11/2016		<0.05 (O)
5/12/2016	<0.05 (O)	

FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-11	0.13	n/a	3/25/2020	0.45	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-13	0.13	n/a	3/27/2020	0.49	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-14	0.13	n/a	3/27/2020	1.5	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-15	0.13	n/a	3/27/2020	1.4	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-16	0.13	n/a	3/27/2020	0.59	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-17	0.13	n/a	3/24/2020	0.37	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-18	0.13	n/a	3/26/2020	6	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-19	0.13	n/a	3/23/2020	1.7	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-20	0.13	n/a	3/23/2020	1.9	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-21	0.13	n/a	3/23/2020	0.83	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-22	0.13	n/a	3/24/2020	0.34	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-23	0.13	n/a	3/24/2020	0.55	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-9	0.13	n/a	3/25/2020	1.6	Yes	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	SGWC-12	19	n/a	3/26/2020	22	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-14	19	n/a	3/27/2020	41	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-17	19	n/a	3/24/2020	58	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-18	19	n/a	3/26/2020	81	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-19	19	n/a	3/23/2020	46	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-21	19	n/a	3/23/2020	36	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-22	19	n/a	3/24/2020	31	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-23	19	n/a	3/24/2020	22	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-7	19	n/a	3/26/2020	21	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-8	19	n/a	3/25/2020	48	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-9	19	n/a	3/25/2020	55	Yes	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	SGWC-10	3.089	n/a	3/25/2020	8.8	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3.089	n/a	3/25/2020	9	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3.089	n/a	3/26/2020	9.4	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3.089	n/a	3/27/2020	9	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3.089	n/a	3/27/2020	11	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3.089	n/a	3/27/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3.089	n/a	3/27/2020	8.5	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3.089	n/a	3/24/2020	7.8	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3.089	n/a	3/26/2020	12	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3.089	n/a	3/23/2020	7.7	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3.089	n/a	3/23/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3.089	n/a	3/23/2020	11	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3.089	n/a	3/24/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3.089	n/a	3/24/2020	9.1	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-7	3.089	n/a	3/26/2020	5.1	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-8	3.089	n/a	3/25/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-9	3.089	n/a	3/25/2020	15	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Fluoride, total (mg/L)	SGWC-15	0.108	n/a	3/27/2020	0.13	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-20	0.108	n/a	3/23/2020	0.25	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-21	0.108	n/a	3/23/2020	0.11	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-6	0.108	n/a	3/25/2020	0.13	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-7	0.108	n/a	3/26/2020	0.14	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-8	0.108	n/a	3/25/2020	0.31	Yes	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-15	6.87	5.09	3/27/2020	4.51	Yes	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-18	6.87	5.09	3/26/2020	4.74	Yes	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-20	6.87	5.09	3/23/2020	4.19	Yes	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-10	3.75	n/a	3/25/2020	14	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-12	3.75	n/a	3/26/2020	44	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-13	3.75	n/a	3/27/2020	81	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-14	3.75	n/a	3/27/2020	180	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-15	3.75	n/a	3/27/2020	190	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-16	3.75	n/a	3/27/2020	35	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate, total (mg/L)	SGWC-17	3.75	n/a	3/24/2020	190	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-18	3.75	n/a	3/26/2020	1000	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-19	3.75	n/a	3/23/2020	250	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-20	3.75	n/a	3/23/2020	220	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-21	3.75	n/a	3/23/2020	120	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-22	3.75	n/a	3/24/2020	100	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-23	3.75	n/a	3/24/2020	71	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-7	3.75	n/a	3/26/2020	15	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-8	3.75	n/a	3/25/2020	62	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-9	3.75	n/a	3/25/2020	300	Yes	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	3/27/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	3/27/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	3/24/2020	430	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	3/26/2020	1600	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	3/23/2020	390	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	3/23/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	3/23/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	3/24/2020	250	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	3/24/2020	210	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	3/25/2020	360	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	3/25/2020	540	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Scherer   Client: Southern Company   Data: Scherer AP   Printed 6/16/2020, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-10	0.13	n/a	3/25/2020	0.12	No	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-11</b>	<b>0.13</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>0.45</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron, total (mg/L)	SGWC-12	0.13	n/a	3/26/2020	0.08ND	No	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-13</b>	<b>0.13</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>0.49</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-14</b>	<b>0.13</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>1.5</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-15</b>	<b>0.13</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>1.4</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-16</b>	<b>0.13</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>0.59</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-17</b>	<b>0.13</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>0.37</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-18</b>	<b>0.13</b>	<b>n/a</b>	<b>3/26/2020</b>	<b>6</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-19</b>	<b>0.13</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>1.7</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-20</b>	<b>0.13</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>1.9</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-21</b>	<b>0.13</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>0.83</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-22</b>	<b>0.13</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>0.34</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-23</b>	<b>0.13</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>0.55</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron, total (mg/L)	SGWC-6	0.13	n/a	3/25/2020	0.08ND	No	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-7	0.13	n/a	3/26/2020	0.055	No	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-8	0.13	n/a	3/25/2020	0.089	No	98	n/a	n/a	93.88	n/a	n/a	0.0001997	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-9</b>	<b>0.13</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>1.6</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>93.88</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (NDs) 1 of 2</b>
Calcium, total (mg/L)	SGWC-10	19	n/a	3/25/2020	2.9	No	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-11	19	n/a	3/25/2020	2	No	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-12</b>	<b>19</b>	<b>n/a</b>	<b>3/26/2020</b>	<b>22</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-13	19	n/a	3/27/2020	18	No	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-14</b>	<b>19</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>41</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-15	19	n/a	3/27/2020	17	No	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-16	19	n/a	3/27/2020	1.5	No	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-17</b>	<b>19</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>58</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-18</b>	<b>19</b>	<b>n/a</b>	<b>3/26/2020</b>	<b>81</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-19</b>	<b>19</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>46</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-20	19	n/a	3/23/2020	13	No	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-21</b>	<b>19</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>36</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-22</b>	<b>19</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>31</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-23</b>	<b>19</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>22</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-6	19	n/a	3/25/2020	11	No	98	n/a	n/a	0	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-7</b>	<b>19</b>	<b>n/a</b>	<b>3/26/2020</b>	<b>21</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-8</b>	<b>19</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>48</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-9</b>	<b>19</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>55</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	SGWC-10	3.089	n/a	3/25/2020	8.8	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3.089	n/a	3/25/2020	9	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3.089	n/a	3/26/2020	9.4	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3.089	n/a	3/27/2020	9	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3.089	n/a	3/27/2020	11	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3.089	n/a	3/27/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3.089	n/a	3/27/2020	8.5	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3.089	n/a	3/24/2020	7.8	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3.089	n/a	3/26/2020	12	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3.089	n/a	3/23/2020	7.7	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3.089	n/a	3/23/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3.089	n/a	3/23/2020	11	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3.089	n/a	3/24/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3.089	n/a	3/24/2020	9.1	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-6	3.089	n/a	3/25/2020	2.3	No	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-7	3.089	n/a	3/26/2020	5.1	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-8	3.089	n/a	3/25/2020	10	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-9	3.089	n/a	3/25/2020	15	Yes	98	0.5915	0.2545	0	None	ln(x)	0.000418	Param Inter 1 of 2
Fluoride, total (mg/L)	SGWC-10	0.108	n/a	3/25/2020	0.031	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-11	0.108	n/a	3/25/2020	0.058	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-12	0.108	n/a	3/26/2020	0.081	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-13	0.108	n/a	3/27/2020	0.045	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-14	0.108	n/a	3/27/2020	0.041	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-15</b>	<b>0.108</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>0.13</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>69.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001368</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-16	0.108	n/a	3/27/2020	0.027	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-17	0.108	n/a	3/24/2020	0.058	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-18	0.108	n/a	3/26/2020	0.091	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-19	0.108	n/a	3/23/2020	0.057	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-20</b>	<b>0.108</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>0.25</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>69.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001368</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>SGWC-21</b>	<b>0.108</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>0.11</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>69.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001368</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-22	0.108	n/a	3/24/2020	0.1ND	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-23	0.108	n/a	3/24/2020	0.081	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-6</b>	<b>0.108</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>0.13</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>69.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001368</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>SGWC-7</b>	<b>0.108</b>	<b>n/a</b>	<b>3/26/2020</b>	<b>0.14</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>69.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001368</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>SGWC-8</b>	<b>0.108</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>0.31</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>69.75</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001368</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-9	0.108	n/a	3/25/2020	0.079	No	119	n/a	n/a	69.75	n/a	n/a	0.0001368	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-10	6.87	5.09	3/25/2020	5.26	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-11	6.87	5.09	3/25/2020	5.16	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-12	6.87	5.09	3/26/2020	6.1	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-13	6.87	5.09	3/27/2020	5.89	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-14	6.87	5.09	3/27/2020	5.74	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-15</b>	<b>6.87</b>	<b>5.09</b>	<b>3/27/2020</b>	<b>4.51</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003536</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-16	6.87	5.09	3/27/2020	5.17	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-17	6.87	5.09	3/24/2020	6.21	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-18</b>	<b>6.87</b>	<b>5.09</b>	<b>3/26/2020</b>	<b>4.74</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003536</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-19	6.87	5.09	3/23/2020	5.51	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-20</b>	<b>6.87</b>	<b>5.09</b>	<b>3/23/2020</b>	<b>4.19</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003536</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-21	6.87	5.09	3/23/2020	6.12	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-22	6.87	5.09	3/24/2020	5.62	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-23	6.87	5.09	3/24/2020	6	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-6	6.87	5.09	3/25/2020	6.31	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-7	6.87	5.09	3/26/2020	6.52	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-8	6.87	5.09	3/25/2020	6.35	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-9	6.87	5.09	3/25/2020	6.01	No	105	n/a	n/a	0	n/a	n/a	0.0003536	NP Inter (normality) 1 of 2
<b>Sulfate, total (mg/L)</b>	<b>SGWC-10</b>	<b>3.75</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>14</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate, total (mg/L)	SGWC-11	3.75	n/a	3/25/2020	0.58	No	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
<b>Sulfate, total (mg/L)</b>	<b>SGWC-12</b>	<b>3.75</b>	<b>n/a</b>	<b>3/26/2020</b>	<b>44</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-13</b>	<b>3.75</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>81</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-14</b>	<b>3.75</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>180</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-15</b>	<b>3.75</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>190</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-16</b>	<b>3.75</b>	<b>n/a</b>	<b>3/27/2020</b>	<b>35</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-17</b>	<b>3.75</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>190</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-18</b>	<b>3.75</b>	<b>n/a</b>	<b>3/26/2020</b>	<b>1000</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-19</b>	<b>3.75</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>250</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-20</b>	<b>3.75</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>220</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-21</b>	<b>3.75</b>	<b>n/a</b>	<b>3/23/2020</b>	<b>120</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-22</b>	<b>3.75</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>100</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-23</b>	<b>3.75</b>	<b>n/a</b>	<b>3/24/2020</b>	<b>71</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate, total (mg/L)	SGWC-6	3.75	n/a	3/25/2020	0.58	No	98	n/a	n/a	47.96	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
<b>Sulfate, total (mg/L)</b>	<b>SGWC-7</b>	<b>3.75</b>	<b>n/a</b>	<b>3/26/2020</b>	<b>15</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-8</b>	<b>3.75</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>62</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-9</b>	<b>3.75</b>	<b>n/a</b>	<b>3/25/2020</b>	<b>300</b>	<b>Yes</b>	<b>98</b>	<b>n/a</b>	<b>n/a</b>	<b>47.96</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001997</b>	<b>NP Inter (normality) 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	SGWC-10	200	n/a	3/25/2020	59	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-11	200	n/a	3/25/2020	38	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-12	200	n/a	3/26/2020	200	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-13	200	n/a	3/27/2020	200	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

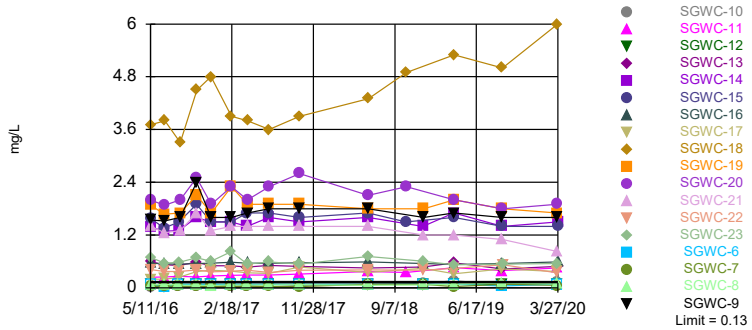
Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	3/27/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	3/27/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-16	200	n/a	3/27/2020	99	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	3/24/2020	430	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	3/26/2020	1600	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	3/23/2020	390	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	3/23/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	3/23/2020	330	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	3/24/2020	250	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	3/24/2020	210	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-6	200	n/a	3/25/2020	94	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-7	200	n/a	3/26/2020	180	No	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	3/25/2020	360	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	3/25/2020	540	Yes	98	n/a	n/a	1.02	n/a	n/a	0.0001997	NP Inter (normality) 1 of 2



Exceeds Limit: SGWC-11, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21...

Prediction Limit  
Interwell Non-parametric

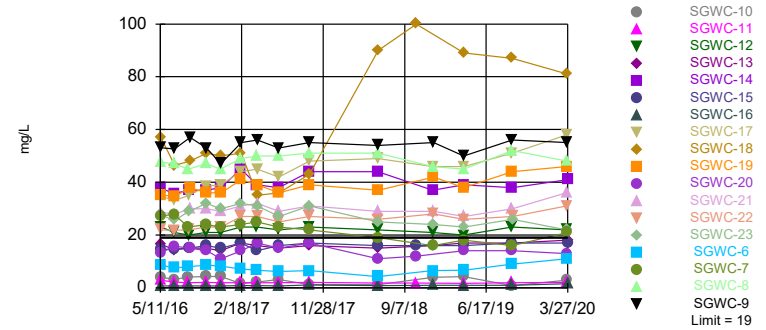


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 98 background values. 93.88% NDs. Annual per-constituent alpha = 0.007164. Individual comparison alpha = 0.0001997 (1 of 2). Comparing 18 points to limit.

Constituent: Boron, total Analysis Run 6/16/2020 2:51 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Exceeds Limit: SGWC-12, SGWC-14, SGWC-17, SGWC-18, SGWC-19, SGWC-21, SGWC-22, SGWC-23, SGWC-7, SGWC-8...

Prediction Limit  
Interwell Non-parametric

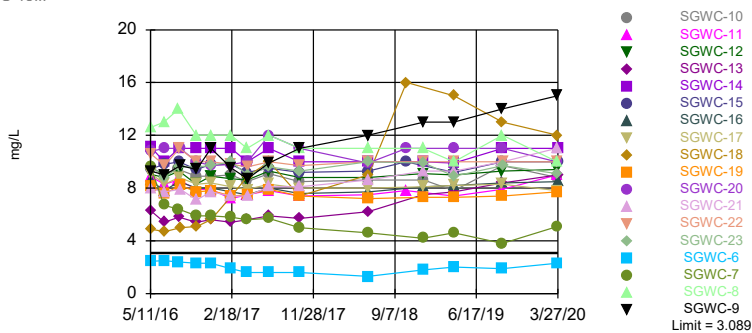


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. Annual per-constituent alpha = 0.007164. Individual comparison alpha = 0.0001997 (1 of 2). Comparing 18 points to limit.

Constituent: Calcium, total Analysis Run 6/16/2020 2:51 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Exceeds Limit: SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19...

Prediction Limit  
Interwell Parametric

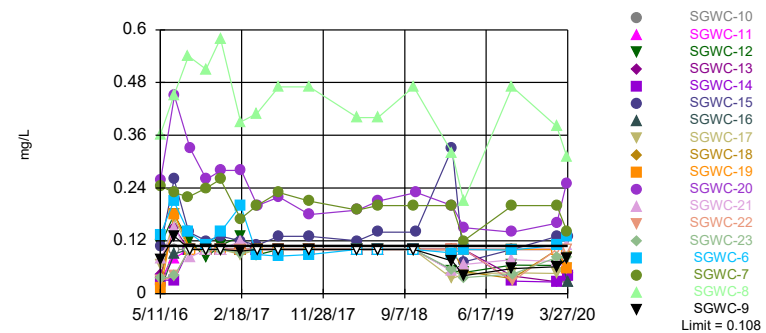


Background Data Summary (based on natural log transformation): Mean=0.5915, Std. Dev.=0.2545, n=98. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9714, critical = 0.966. Kappa = 2.106 (c=7, w=18, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000418. Comparing 18 points to limit.

Constituent: Chloride, Total Analysis Run 6/16/2020 2:51 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Exceeds Limit: SGWC-15, SGWC-20, SGWC-21, SGWC-6, SGWC-7, SGWC-8

Prediction Limit  
Interwell Non-parametric

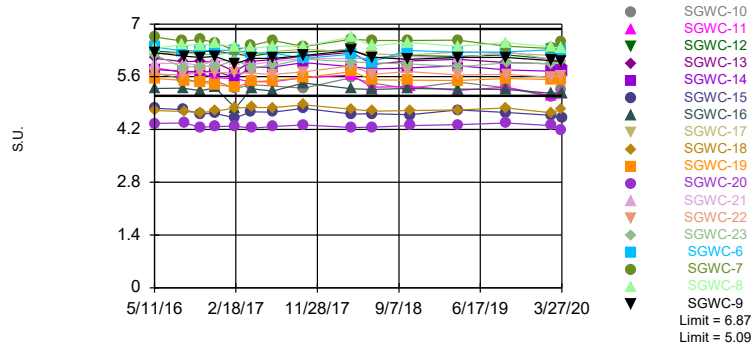


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 119 background values. 69.75% NDs. Annual per-constituent alpha = 0.004914. Individual comparison alpha = 0.0001368 (1 of 2). Comparing 18 points to limit.

Constituent: Fluoride, total Analysis Run 6/16/2020 2:51 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Exceeds Limits: SGWC-15, SGWC-18, SGWC-20

Prediction Limit  
Interwell Non-parametric



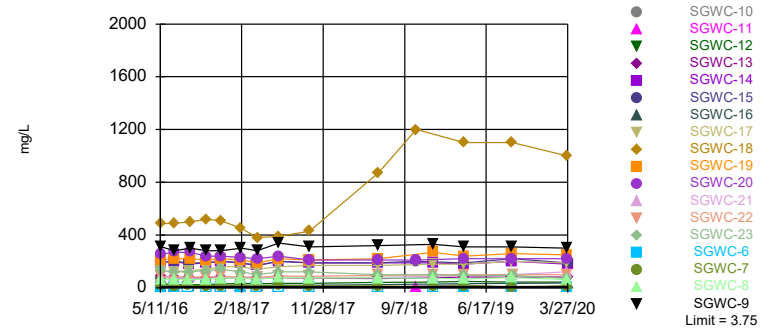
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 105 background values. Annual per-constituent alpha = 0.01269. Individual comparison alpha = 0.0003536 (1 of 2). Comparing 18 points to limit.

Constituent: pH Analysis Run 6/16/2020 2:51 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-10, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20...

Prediction Limit  
Interwell Non-parametric



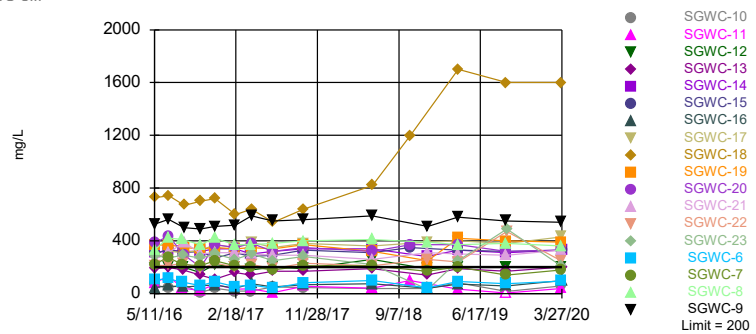
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 47.96% NDs. Annual per-constituent alpha = 0.007164. Individual comparison alpha = 0.0001997 (1 of 2). Comparing 18 points to limit.

Constituent: Sulfate, total Analysis Run 6/16/2020 2:51 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-14, SGWC-15, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23, SGWC-8...

Prediction Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 1.02% NDs. Annual per-constituent alpha = 0.007164. Individual comparison alpha = 0.0001997 (1 of 2). Comparing 18 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:51 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWA-25 (bg)	SGWA-5 (bg)	SGWA-2 (bg)	SGWC-10	SGWC-8	SGWC-6
5/10/2016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08			
5/11/2016							0.0275 (J)	0.0678 (J)	<0.08
5/12/2016									
5/13/2016									
6/23/2016	<0.08	<0.08			<0.08	<0.08			
6/24/2016			0.0109 (J)						
6/27/2016				0.0052 (J)				0.0767 (J)	0.0051 (J)
6/28/2016							0.035 (J)		
6/29/2016									
6/30/2016									
8/16/2016	<0.08	<0.08	<0.08		<0.08	<0.08			
8/17/2016				<0.08			0.028 (J)	0.067	<0.08
8/18/2016									
8/19/2016									
8/22/2016									
10/13/2016	<0.08	<0.08							
10/14/2016			<0.08	<0.08	<0.08	<0.08			
10/17/2016							0.032 (J)	0.059	<0.08
10/18/2016									
10/19/2016									
12/5/2016		<0.08							
12/6/2016	<0.08		<0.08	<0.08	<0.08	<0.08	<0.08	0.054	<0.08
12/7/2016									
12/8/2016									
2/14/2017	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		0.063	<0.08
2/15/2017							0.035 (J)		
2/16/2017									
4/10/2017		<0.08							
4/11/2017	<0.08		<0.08	<0.08	<0.08	<0.08			
4/12/2017							0.052	0.068	<0.08
4/13/2017									
6/26/2017	<0.08	<0.08	<0.08		<0.08	<0.08			
6/27/2017				<0.08			<0.08	0.067	<0.08
6/28/2017									
10/10/2017	<0.08	<0.08				<0.08			
10/11/2017			<0.08	<0.08	<0.08				<0.08
10/12/2017							0.049 (J)	0.075	
6/5/2018	<0.08	<0.08		<0.08	<0.08	<0.08			
6/6/2018			<0.08				0.07	0.059	<0.08
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08			
12/14/2018								0.064	<0.08
12/17/2018							0.098		
3/28/2019			<0.08	<0.08	<0.08				
3/29/2019	<0.08	<0.08				<0.08			
4/1/2019							0.16	0.076	
4/2/2019									<0.08
9/12/2019				<0.08					
9/13/2019		<0.08							







# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	0.691	0.562	1.38	0.411	1.57		
5/13/2016						3.71	1.87
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		0.546	1.29		1.36		
6/29/2016	0.557			0.373 (J)			1.67
6/30/2016						3.8	
8/16/2016							
8/17/2016							
8/18/2016		0.54	1.3		1.5		
8/19/2016	0.58			0.37			
8/22/2016						3.3	1.7
10/13/2016							
10/14/2016							
10/17/2016			1.6				
10/18/2016	0.68	0.55		0.41	1.9		2.1
10/19/2016						4.5	
12/5/2016							
12/6/2016							
12/7/2016	0.6	0.56	1.5	0.36	1.5	4.8	
12/8/2016							1.7
2/14/2017							
2/15/2017	0.82		1.5		1.5		
2/16/2017		0.58		0.38 (J)		3.9	2.3
4/10/2017							
4/11/2017							
4/12/2017			1.4		1.7		
4/13/2017	0.54	0.56		0.4		3.8	1.9
6/26/2017							
6/27/2017		0.56	1.6		1.7		
6/28/2017	0.59			0.35		3.6	1.9
10/10/2017							
10/11/2017			1.5				
10/12/2017	0.54	0.57		0.4	1.6	3.9	1.9
6/5/2018							
6/6/2018							
6/7/2018	0.71	0.59	1.6	0.41	1.7		
6/8/2018						4.3	1.8
10/16/2018					1.5 (D)		
10/18/2018						4.9 (D)	
12/13/2018							
12/14/2018			1.4				
12/17/2018	0.6	0.55		0.4			1.8
3/28/2019							
3/29/2019							
4/1/2019			1.7		1.6		
4/2/2019	0.52	0.53		0.44		5.3	2
9/12/2019							
9/13/2019							

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
9/16/2019							
9/17/2019		0.55	1.4		1.4	5	1.8
9/18/2019	0.54			0.52			
3/17/2020							
3/18/2020							
3/23/2020							1.7
3/24/2020	0.55			0.34			
3/25/2020							
3/26/2020						6	
3/27/2020		0.59	1.5		1.4		



# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWA-25 (bg)	SGWA-5 (bg)	SGWA-2 (bg)	SGWC-10	SGWC-8	SGWC-6
5/10/2016	3	12.3	6.22	11.4	2.64	10.1			
5/11/2016							4.14	47.6	8.7
5/12/2016									
5/13/2016									
6/23/2016	2.42	11.3			1.65	8.45			
6/24/2016			5.55						
6/27/2016				9.16				47	7.48
6/28/2016							3.13		
6/29/2016									
6/30/2016									
8/16/2016	2.1	11	5		1.3	9.4			
8/17/2016				9.6			4.1	45	8
8/18/2016									
8/19/2016									
8/22/2016									
10/13/2016	2.7	12							
10/14/2016			5.4	11	1.4	10			
10/17/2016							4.2	47	8.6
10/18/2016									
10/19/2016									
12/5/2016		12							
12/6/2016	2.1		4.8	11	1.4	10	4.3	45	8.2
12/7/2016									
12/8/2016									
2/14/2017	1.8	13	4.6	12	1.4	11		49	7.2
2/15/2017							1.5		
2/16/2017									
4/10/2017		12							
4/11/2017	1.8		5	11	1.4	10			
4/12/2017							2.2	50	6.7
4/13/2017									
6/26/2017	1.7 (D)	13 (D)	4.9 (D)		1.5 (D)	10 (D)			
6/27/2017				9.5 (D)			3.1 (D)	50 (D)	6.2 (D)
6/28/2017									
10/10/2017	2.3	14				11			
10/11/2017			5.5	11	1.6				6.5
10/12/2017							1.2	51	
6/5/2018	2.6	13		9.7	1.5	11			
6/6/2018			4.1				1.2	51	4.2
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	1.7	12	4.3	9.4	1.4	10			
12/14/2018								46	6.5
12/17/2018							4		
3/28/2019			4.8	8.7	1.4				
3/29/2019	2	12				11			
4/1/2019							4.2	45	
4/2/2019									6.7
9/12/2019					1.6				
9/13/2019		14							







# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	27.6	0.75	37.7	21.9	14.5		
5/13/2016						56.9	35.3
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		0.768	35.8		14.7		
6/29/2016	25.6			21.8			34.6
6/30/2016						46.4	
8/16/2016							
8/17/2016							
8/18/2016		0.7	37		15		
8/19/2016	29			22			
8/22/2016						48	38
10/13/2016							
10/14/2016							
10/17/2016			37				
10/18/2016	32	0.75		23	16		36
10/19/2016						51	
12/5/2016							
12/6/2016							
12/7/2016	30	0.73	38	23	15	50	
12/8/2016							36
2/14/2017							
2/15/2017	32		45		17		
2/16/2017		0.81		27		51	41
4/10/2017							
4/11/2017							
4/12/2017			39		14		
4/13/2017	31	0.88		27		35	39
6/26/2017							
6/27/2017		0.76 (D)	38 (D)		16 (D)		
6/28/2017	27 (D)			25 (D)		36 (D)	36 (D)
10/10/2017							
10/11/2017			44				
10/12/2017	31	1.1		27	17	43	39
6/5/2018							
6/6/2018							
6/7/2018	25	0.84	44	26	16		
6/8/2018						90	37
10/16/2018					16 (D)		
10/18/2018						100 (D)	
12/13/2018							
12/14/2018			37				
12/17/2018	24	0.94		28			42
3/28/2019							
3/29/2019							
4/1/2019			39		16		
4/2/2019	23	0.92		26		89	38
9/12/2019							
9/13/2019							

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
9/16/2019							
9/17/2019		1	38		17	87	44
9/18/2019	26			27			
3/17/2020							
3/18/2020							
3/23/2020							46
3/24/2020	22			31			
3/25/2020							
3/26/2020						81	
3/27/2020		1.5	41		17		

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWA-25 (bg)	SGWA-5 (bg)	SGWA-2 (bg)	SGWC-10	SGWC-8	SGWC-6
5/10/2016	1.9	1.94	3.45	2.77	1.98	1.51			
5/11/2016							9.53	12.6	2.44
5/12/2016									
5/13/2016									
6/23/2016	2.2	2.2			2.1	1.8			
6/24/2016			3.5						
6/27/2016				2.9				13	2.5
6/28/2016							9.1		
6/29/2016									
6/30/2016									
8/16/2016	2.1	2	3.4		1.8	1.5			
8/17/2016				2.4			9.4	14	2.4
8/18/2016									
8/19/2016									
8/22/2016									
10/13/2016	2	1.9							
10/14/2016			3.1	2.1	1.8	1.4			
10/17/2016							8.9	12	2.3
10/18/2016									
10/19/2016									
12/5/2016		1.9							
12/6/2016	2.2		3	1.7	1.8	1.5	8.9	12	2.3
12/7/2016									
12/8/2016									
2/14/2017	2	1.9	2.4	1.5	1.8	1.5		12	1.9
2/15/2017							9		
2/16/2017									
4/10/2017		1.8							
4/11/2017	1.8		2.5	1.7	1.7	1.3			
4/12/2017							8.5	11	1.6
4/13/2017									
6/26/2017	1.9	1.9	2.6		1.7	1.4			
6/27/2017				2.2			9.1	12	1.6
6/28/2017									
10/10/2017	1.8	1.8				1.3			
10/11/2017			2.4	1.7	1.6				1.6
10/12/2017							8.5	11	
6/5/2018	1.7	1.9		2	1.6	1.3			
6/6/2018			2				8.6	11	1.3
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	1.7	2	2	1.9	1.7	1.3			
12/14/2018								11	1.8
12/17/2018							8.6		
3/28/2019			2	2.2	1.7				
3/29/2019	1.5	1.8				1.2			
4/1/2019							7.8	10	
4/2/2019									2
9/12/2019					1.5				
9/13/2019		1.7							









# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	9.63	8.56	11.1	10.6	9.47		
5/13/2016						4.87	8.16
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		7.8	10		9.8		
6/29/2016	8.8			9.7			7.6
6/30/2016						4.7	
8/16/2016							
8/17/2016							
8/18/2016		8.5	11		10		
8/19/2016	9.6			11			
8/22/2016						5	8.2
10/13/2016							
10/14/2016							
10/17/2016			11				
10/18/2016	9.6	8		10	9.4		7.7
10/19/2016						5.1	
12/5/2016							
12/6/2016							
12/7/2016	9.7	8	11	10	9.8	5.6	
12/8/2016							7.8
2/14/2017							
2/15/2017	10		11		9.8		
2/16/2017		7.7		9.8		7.4	7.4
4/10/2017							
4/11/2017							
4/12/2017			10		9.2		
4/13/2017	9	7.5		9.6		8.9	7.5
6/26/2017							
6/27/2017		8	11		9.5		
6/28/2017	9.6			10		10	7.9
10/10/2017							
10/11/2017			10				
10/12/2017	9.3	7.6		9.7	9.2	7.4	7.4
6/5/2018							
6/6/2018							
6/7/2018	10	7.7	10	10	9.3		
6/8/2018						9	7.2
10/16/2018					10 (D)		
10/18/2018						16 (D)	
12/13/2018							
12/14/2018			10				
12/17/2018	9.9	8.1		10			7.3
3/28/2019							
3/29/2019							
4/1/2019			9.9		9.2		
4/2/2019	8.9	8.2		10		15	7.3
9/12/2019							
9/13/2019							

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
9/16/2019							
9/17/2019		8.4	11		10	13	7.4
9/18/2019	9.7			10			
3/17/2020							
3/18/2020							
3/23/2020							7.7
3/24/2020	9.1			10			
3/25/2020							
3/26/2020						12	
3/27/2020		8.5	11		10		

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-25 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWA-5 (bg)	SGWA-2 (bg)	SGWC-7	SGWC-6	SGWA-4 (bg)
5/10/2016	<0.1	0.041 (J)	0.0648 (J)	0.0192 (J)	0.0188 (J)	0.0537 (J)			
5/11/2016							0.245 (J)	0.133 (J)	0.108 (J)
5/12/2016									
5/13/2016									
6/23/2016	<0.1		0.05 (J)		<0.1	0.03 (J)			
6/24/2016				0.02 (J)					0.08 (J)
6/27/2016		0.03 (J)					0.23 (J)	0.21 (J)	
6/28/2016									
6/29/2016									
6/30/2016									
8/16/2016	<0.1		<0.1	<0.1	<0.1	<0.1			
8/17/2016		<0.1					0.22	0.14 (J)	<0.1
8/18/2016									
8/19/2016									
8/22/2016									
10/13/2016	<0.1		<0.1						
10/14/2016		<0.1		<0.1	<0.1	<0.1			
10/17/2016								0.11 (J)	<0.1
10/18/2016							0.24		
10/19/2016									
12/5/2016			<0.1						
12/6/2016	<0.1	<0.1		<0.1	<0.1	<0.1	0.26	0.14 (J)	0.091 (J)
12/7/2016									
12/8/2016									
2/14/2017	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.17 (J)	0.2	0.1 (J)
2/15/2017									
2/16/2017									
4/10/2017			<0.1						
4/11/2017	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1
4/12/2017							0.2	0.089 (J)	
4/13/2017									
6/26/2017	<0.1		<0.1	<0.1	<0.1	<0.1			<0.1
6/27/2017		<0.1					0.23	0.085 (J)	
6/28/2017									
10/10/2017	<0.1		<0.1			<0.1			
10/11/2017		<0.1		<0.1	<0.1		0.21	0.089 (J)	<0.1
10/12/2017									
3/26/2018	<0.1		<0.1	<0.1		<0.1			
3/27/2018		<0.1			<0.1		0.19 (J)	<0.1	<0.1
3/28/2018									
6/5/2018	<0.1	<0.1	<0.1		<0.1	<0.1			
6/6/2018				<0.1			0.2	<0.1	<0.1
6/7/2018									
6/8/2018									
10/5/2018	<0.1		<0.1	<0.1		<0.1			
10/8/2018		<0.1			<0.1			<0.1	<0.1
10/9/2018							0.2		
10/16/2018									
10/18/2018									
2/18/2019	<0.1					0.05 (J)			0.066 (J)
2/19/2019		0.044 (J)	0.06 (J)	<0.1	<0.1				
2/20/2019							0.2	0.092 (J)	



# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-9	SGWC-8	SGWC-11	SGWC-10	SGWC-12	SGWC-20	SGWC-17	SGWC-15	SGWC-23
5/10/2016									
5/11/2016	0.076 (J)	0.362	0.033 (J)	0.019 (J)	0.11 (J)				
5/12/2016						0.259 (J)	0.066 (J)	0.1071 (J)	0.0341 (J)
5/13/2016									
6/23/2016									
6/24/2016									
6/27/2016		0.45							
6/28/2016			0.08 (J)	<0.1	0.18 (J)			0.26 (J)	
6/29/2016	0.13 (J)					0.45	0.17 (J)		0.04 (J)
6/30/2016									
8/16/2016									
8/17/2016		0.54	<0.1	<0.1					
8/18/2016					0.12 (J)		<0.1	0.14 (J)	
8/19/2016									<0.1
8/22/2016	<0.1					0.33			
10/13/2016									
10/14/2016									
10/17/2016		0.51	<0.1	<0.1	0.082 (J)				
10/18/2016	<0.1					0.26		0.12 (J)	<0.1
10/19/2016							<0.1 (D)		
12/5/2016									
12/6/2016		0.58	<0.1	<0.1	0.11 (J)				
12/7/2016	<0.1						<0.1	0.13 (J)	<0.1
12/8/2016						0.28			
2/14/2017		0.39							
2/15/2017			<0.1	<0.1	0.13 (J)		0.089 (J)	0.12 (J)	0.092 (J)
2/16/2017	0.097 (J)					0.28			
4/10/2017									
4/11/2017									
4/12/2017		0.41	<0.1	<0.1	0.088 (J)			0.11 (J)	
4/13/2017	<0.1					0.2	<0.1		<0.1
6/26/2017									
6/27/2017	<0.1	0.47	<0.1	<0.1	0.1 (J)		<0.1	0.13 (J)	
6/28/2017						0.22			<0.1
10/10/2017									
10/11/2017			<0.1		<0.1				
10/12/2017	<0.1	0.47		<0.1		0.18 (J)	<0.1	0.13 (J)	<0.1
3/26/2018									
3/27/2018		0.4	<0.1	<0.1	<0.1		<0.1	0.12 (J)	<0.1
3/28/2018	<0.1					0.19 (J)			
6/5/2018									
6/6/2018	<0.1	0.4	<0.1	<0.1	<0.1				
6/7/2018						0.21	<0.1	0.14 (J)	<0.1
6/8/2018									
10/5/2018									
10/8/2018					<0.1		<0.1		<0.1
10/9/2018	<0.1	0.47		<0.1					
10/16/2018			<0.1 (D)					0.14 (JD)	
10/18/2018						0.23 (D)			
2/18/2019									
2/19/2019									0.055 (J)
2/20/2019	0.074 (J)	0.32	<0.1	<0.1	0.052 (J)	0.2	0.034 (J)	0.33	





# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-22	SGWC-14	SGWC-21	SGWC-13	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	0.011 (J)	0.029 (J)	0.031 (J)	0.079 (J)	0.042 (J)		
5/13/2016						0.0126 (J)	0.0343 (J)
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016	0.09 (J)		0.03 (J)		0.15 (J)		
6/29/2016		0.04 (J)		0.15 (J)		0.18 (J)	
6/30/2016							0.18 (J)
8/16/2016							
8/17/2016							
8/18/2016	<0.1		<0.1		<0.1		
8/19/2016		<0.1					
8/22/2016				0.083 (J)		<0.1	<0.1
10/13/2016							
10/14/2016							
10/17/2016			<0.1		<0.1		
10/18/2016	<0.1	<0.1		<0.1		<0.1	
10/19/2016							<0.1
12/5/2016							
12/6/2016					<0.1		
12/7/2016	<0.1	<0.1	<0.1	<0.1			<0.1
12/8/2016						<0.1	
2/14/2017							
2/15/2017			<0.1		<0.1		
2/16/2017	<0.1	0.1 (J)		0.12 (J)		<0.1	<0.1
4/10/2017							
4/11/2017							
4/12/2017			<0.1		<0.1		
4/13/2017	<0.1	<0.1		<0.1		<0.1	<0.1
6/26/2017							
6/27/2017	<0.1		<0.1		<0.1		
6/28/2017		<0.1		0.1 (J)		<0.1	<0.1
10/10/2017							
10/11/2017			<0.1		<0.1		
10/12/2017	<0.1	<0.1		<0.1		<0.1	<0.1
3/26/2018							
3/27/2018	<0.1		<0.1		<0.1		
3/28/2018		<0.1		<0.1		<0.1	<0.1
6/5/2018							
6/6/2018							
6/7/2018	<0.1	<0.1	<0.1	<0.1	<0.1		
6/8/2018						<0.1	<0.1
10/5/2018							
10/8/2018	<0.1	<0.1	<0.1	<0.1	<0.1		
10/9/2018						<0.1	
10/16/2018							
10/18/2018							<0.1 (D)
2/18/2019							
2/19/2019		<0.1					
2/20/2019	<0.1		<0.1	0.051 (J)	<0.1	<0.1	<0.1

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-22	SGWC-14	SGWC-21	SGWC-13	SGWC-19	SGWC-18
3/28/2019							
3/29/2019							
4/1/2019			<0.1		<0.1		
4/2/2019	<0.1	<0.1		0.066 (J)		<0.1	0.05 (J)
9/12/2019							
9/13/2019							
9/16/2019							
9/17/2019	<0.1		0.028 (J)	0.077 (J)	0.04 (J)	<0.1	0.034 (J)
9/18/2019		0.028 (J)					
2/13/2020							
2/17/2020							
2/18/2020		<0.1		0.073 (J)			
2/19/2020	<0.1		0.026 (J)		0.027 (J)	<0.1	
2/20/2020							<0.1
3/17/2020							
3/18/2020							
3/23/2020				0.11		0.057 (J)	
3/24/2020		<0.1					
3/25/2020							
3/26/2020							0.091 (J)
3/27/2020	0.027 (J)		0.041 (J)		0.045 (J)		





# Prediction Limit

Constituent: pH (S.U.) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-8	SGWC-9	SGWC-6	SGWC-10	SGWC-11	SGWC-21	SGWC-23	SGWC-22	SGWC-13
5/10/2016									
5/11/2016	6.35	6.24	6.39	5.7	5.84				
5/12/2016						5.95	6.18	5.675 (D)	6.09
5/13/2016									
8/16/2016									
8/17/2016	6.45		6.28	5.55	5.71				
8/18/2016									6
8/19/2016							5.84	5.65	
8/22/2016		6.15				5.96			
10/13/2016									
10/14/2016									
10/17/2016	6.43		6.3	5.45	5.69				6.01
10/18/2016		6.11				5.9	5.89	5.71	
10/19/2016									
12/5/2016									
12/6/2016	6.48		6.3	5.49	5.58				5.98
12/7/2016		6.14				6.03	5.87	5.71	
12/8/2016									
2/14/2017	6.39		6.31						
2/15/2017				5.29	5.54		6.04		5.74
2/16/2017		5.95				6.03		5.7	
4/10/2017									
4/11/2017									
4/12/2017	6.35		6.23	5.39	5.47				6.01
4/13/2017		6.09				5.93	5.85	5.7	
6/26/2017									
6/27/2017	6.41	6.09	6.23		5.47				6.05
6/28/2017						6	5.9	5.66	
10/10/2017									
10/11/2017			6.09		5.58				6.14
10/12/2017	6.41	6.16		5.3		6.09	6.07	5.73	
3/26/2018									
3/27/2018	6.66		6.2	5.58	5.65		5.99		6.25
3/28/2018		6.3				6.08		5.89	
6/5/2018									
6/6/2018	6.42	6.12	5.99	5.43	5.32				
6/7/2018						6.1	5.97	5.66	5.93
6/8/2018									
10/5/2018									
10/8/2018			6.3			6.14	5.94	5.74	6.02
10/9/2018	6.51	6.06		5.29					
10/16/2018					5.34				
10/18/2018									
3/28/2019									
3/29/2019									
4/1/2019	6.41	6.11		5.46	5.24				6.06
4/2/2019			6.25			6.09	5.87	5.65	
9/12/2019									
9/13/2019									
9/16/2019		6.11	6.26		5.32				
9/17/2019	6.5			5.31		6.27			5.98
9/18/2019							5.97	5.66	



# Prediction Limit

Constituent: pH (S.U.) Analysis Run 6/16/2020 2:52 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-20	SGWC-16	SGWC-17	SGWC-15	SGWC-14	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	4.36	5.29	6.21	4.76	5.79		
5/13/2016						4.7	5.55
8/16/2016							
8/17/2016							
8/18/2016		5.3	6.24	4.73	5.75		
8/19/2016							
8/22/2016	4.37					4.68	5.5
10/13/2016							
10/14/2016							
10/17/2016					5.73		
10/18/2016	4.26	5.23		4.62			5.46
10/19/2016			6.2			4.65	
12/5/2016							
12/6/2016							
12/7/2016		5.31	6.19	4.63	5.75	4.69	
12/8/2016	4.28						5.39
2/14/2017							
2/15/2017			6.25	4.51	5.58		
2/16/2017	4.29	4.77				4.77	5.32
4/10/2017							
4/11/2017							
4/12/2017				4.67	5.85		
4/13/2017	4.24	5.28	6.21			4.79	5.47
6/26/2017							
6/27/2017		5.22 (D)	6.27	4.66	5.86		
6/28/2017	4.28					4.78	5.5
10/10/2017							
10/11/2017					5.98		
10/12/2017	4.32	5.43	6.33	4.76		4.86	5.57
3/26/2018							
3/27/2018		5.28	6.26	4.61	5.87		
3/28/2018	4.25					4.74	5.74
6/5/2018							
6/6/2018							
6/7/2018	4.26	5.26	6.21	4.62	5.81		
6/8/2018						4.69	5.52
10/5/2018							
10/8/2018		5.29	6.17		5.83		
10/9/2018							5.51
10/16/2018				4.59			
10/18/2018	4.3					4.7	
3/28/2019							
3/29/2019							
4/1/2019				4.72	5.89		
4/2/2019	4.33	5.27	6.26			4.72	5.5
9/12/2019							
9/13/2019							
9/16/2019							
9/17/2019	4.37	5.26	6.23	4.65	5.78	4.77	5.55
9/18/2019							

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-20	SGWC-16	SGWC-17	SGWC-15	SGWC-14	SGWC-18	SGWC-19
2/13/2020							
2/17/2020							
2/18/2020	4.3						
2/19/2020		5.16	6.16	4.58	5.75		5.53
2/20/2020						4.64	
3/17/2020							
3/18/2020							
3/23/2020	4.19						5.51
3/24/2020			6.21				
3/25/2020							
3/26/2020						4.74	
3/27/2020		5.17		4.51	5.74		



# Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWA-25 (bg)	SGWA-5 (bg)	SGWA-2 (bg)	SGWC-10	SGWC-8	SGWC-6
5/10/2016	0.6766 (J)	<1	2.82	0.686 (J)	0.4716 (J)	0.4053 (J)			
5/11/2016							7.43	61.6	0.866 (J)
5/12/2016									
5/13/2016									
6/23/2016	0.94 (J)	0.3 (J)			0.46 (J)	0.55 (J)			
6/24/2016			2.3						
6/27/2016				0.61 (J)				64	0.86 (J)
6/28/2016							6.3		
6/29/2016									
6/30/2016									
8/16/2016	1.2	<1	1.5		<1	<1			
8/17/2016				<1			11	63	<1
8/18/2016									
8/19/2016									
8/22/2016									
10/13/2016	2.9	<1							
10/14/2016			1.2	<1	<1	<1			
10/17/2016							4.4	64	<1
10/18/2016									
10/19/2016									
12/5/2016		<1							
12/6/2016	3.2		1.3	<1	<1	<1	11	72	<1
12/7/2016									
12/8/2016									
2/14/2017	0.76 (J)	<1	1.9	<1	<1	<1		73	1
2/15/2017							1.3		
2/16/2017									
4/10/2017		<1							
4/11/2017	<1		1.3	<1	<1	<1			
4/12/2017							2.8	64	<1
4/13/2017									
6/26/2017	0.74 (J)	<1	1.5		<1	<1			
6/27/2017				<1			8.2	77	<1
6/28/2017									
10/10/2017	0.76 (J)	<1				<1			
10/11/2017			0.98 (J)	<1	<1				<1
10/12/2017							1.3	74	
6/5/2018	<1	<1		<1	<1	<1			
6/6/2018			1.8				2.9	74	<1
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	<1	<1	1.4	<1	<1	<1			
12/14/2018								72	<1
12/17/2018							16		
3/28/2019			1.9	<1	<1				
3/29/2019	<1	<1				0.65 (J)			
4/1/2019							21	67	
4/2/2019									1.3
9/12/2019					<1				
9/13/2019		<1							







# Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	131	9.9	194	85.3	194		
5/13/2016						484	212
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		11	200		200		
6/29/2016	120			84			220
6/30/2016						490	
8/16/2016							
8/17/2016							
8/18/2016		14	180		190		
8/19/2016	120			81			
8/22/2016						500	220
10/13/2016							
10/14/2016							
10/17/2016			190				
10/18/2016	130	15		83	190		210
10/19/2016						520	
12/5/2016							
12/6/2016							
12/7/2016	140	17	200	85	200	510	
12/8/2016							220
2/14/2017							
2/15/2017	120		190		190		
2/16/2017		17		83		450	210
4/10/2017							
4/11/2017							
4/12/2017			170		170		
4/13/2017	100	15		79		380	190
6/26/2017							
6/27/2017		19	200		200		
6/28/2017	120			90		390	220
10/10/2017							
10/11/2017			190				
10/12/2017	120	20		87	190	430	210
6/5/2018							
6/6/2018							
6/7/2018	100	25	190	94	190		
6/8/2018						870	220
10/16/2018					200		
10/18/2018						1200	
12/13/2018							
12/14/2018			190				
12/17/2018	96	28		99			270
3/28/2019							
3/29/2019							
4/1/2019			180		190		
4/2/2019	95	31		100		1100	240
9/12/2019							
9/13/2019							

# Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
9/16/2019							
9/17/2019		33	200		220	1100	260
9/18/2019	95			100			
3/17/2020							
3/18/2020							
3/23/2020							250
3/24/2020	71			100			
3/25/2020							
3/26/2020						1000	
3/27/2020		35	180		190		

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L)    Analysis Run 6/16/2020 2:52 PM    View: Appendix III

Plant Scherer    Client: Southern Company    Data: Scherer AP

	SGWA-1 (bg)	SGWA-24 (bg)	SGWA-3 (bg)	SGWA-25 (bg)	SGWA-5 (bg)	SGWA-2 (bg)	SGWC-10	SGWC-8	SGWC-6
5/10/2016	44	110	59	100	64	96			
5/11/2016							68	330	104
5/12/2016									
5/13/2016									
6/23/2016	38	118			58	91			
6/24/2016			39						
6/27/2016				117				423	112
6/28/2016							41		
6/29/2016									
6/30/2016									
8/16/2016	22	110	38		52	100			
8/17/2016				86			70	410	86
8/18/2016									
8/19/2016									
8/22/2016									
10/13/2016	66	120							
10/14/2016			34	80	58	100			
10/17/2016							6	370	60
10/18/2016									
10/19/2016									
12/5/2016		110							
12/6/2016	54		70	110	72	110	40	420	90
12/7/2016									
12/8/2016									
2/14/2017	18	86	32	98	52	76		370	54
2/15/2017							18		
2/16/2017									
4/10/2017		120							
4/11/2017	50		64	110	78	120			
4/12/2017							18	370	64
4/13/2017									
6/26/2017	60	130	64		80	110			
6/27/2017				18			50	380	40
6/28/2017									
10/10/2017	36	110				100			
10/11/2017			42	94	64				82
10/12/2017							46	400	
6/5/2018	8	76		80	50	74			
6/6/2018			46				38	410	100
6/7/2018									
6/8/2018									
10/16/2018									
10/18/2018									
12/13/2018	16	100	4 (J)	4 (J)	58	110			
12/14/2018								390	44
12/17/2018							38		
3/28/2019			43	79	58				
3/29/2019	<10	110				72			
4/1/2019							82	370	
4/2/2019									91
9/12/2019				22					
9/13/2019		200							









# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	288	46	309	212	298		
5/13/2016						728	366
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		60	333		337		
6/29/2016	272			214			370
6/30/2016						742	
8/16/2016							
8/17/2016							
8/18/2016		48	320		310		
8/19/2016	290			230			
8/22/2016						670	350
10/13/2016							
10/14/2016							
10/17/2016			320				
10/18/2016	270	60		190	320		340
10/19/2016						700	
12/5/2016							
12/6/2016							
12/7/2016	300	64	340	230	270	720	
12/8/2016							350
2/14/2017							
2/15/2017	260		340		310		
2/16/2017		40		200		600	340
4/10/2017							
4/11/2017							
4/12/2017			300		280		
4/13/2017	300	76		220		640	350
6/26/2017							
6/27/2017		50	320		290		
6/28/2017	250			190		540	340
10/10/2017							
10/11/2017			340				
10/12/2017	280	68		230	330	640	370
6/5/2018							
6/6/2018							
6/7/2018	220	74	340	210	310		
6/8/2018						820	320
10/16/2018					350 (D)		
10/18/2018						1200 (D)	
12/13/2018							
12/14/2018			280				
12/17/2018	30	42		260			250
3/28/2019							
3/29/2019							
4/1/2019			330		330		
4/2/2019	250	73		240		1700	420
9/12/2019							
9/13/2019							

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/16/2020 2:52 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-16	SGWC-14	SGWC-22	SGWC-15	SGWC-18	SGWC-19
9/16/2019							
9/17/2019		59	310		320	1600	400
9/18/2019	490			470			
3/17/2020							
3/18/2020							
3/23/2020							390
3/24/2020	210			250			
3/25/2020							
3/26/2020						1600	
3/27/2020		99	330		330		

FIGURE E.

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:56 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>
Boron, total (mg/L)	SGWC-11	0.05141	82	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-18	0.4938	53	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-4 (bg)	1.025	57	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-17	5.685	76	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-19	2.231	54	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-22	2.039	61	48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-7	-2.838	-60	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-3 (bg)	-0.4335	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-13	0.7317	55	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-18	2.444	70	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-21	0.7892	57	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-7	-0.8428	-75	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-8	-0.6822	-56	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-9	1.476	67	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-20	-0.03715	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-7	-0.01539	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-4 (bg)	-0.3042	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-12	6.134	65	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-16	6.253	85	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-17	18.73	77	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-20	-13.39	-52	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-21	6.001	51	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-22	5.269	55	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-23	-12	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-7	-1.937	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	28.55	66	48	Yes	14	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:56 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>
Boron, total (mg/L)	SGWA-1 (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-2 (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-24 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-25 (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-3 (bg)	0	1	48	No	14	85.71	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-4 (bg)	0	11	48	No	14	92.86	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-5 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>SGWC-11</b>	<b>0.05141</b>	<b>82</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	SGWC-13	-0.02517	-47	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-14	0.04074	27	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-15	0	-8	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-16	0.003244	14	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-17	0.04325	34	48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>SGWC-18</b>	<b>0.4938</b>	<b>53</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	SGWC-19	0	0	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-20	0	0	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-21	-0.06919	-34	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-22	0.01094	11	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-23	-0.01798	-25	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-9	0	16	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-1 (bg)	-0.2047	-42	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-2 (bg)	0.5091	45	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-24 (bg)	0.5598	39	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-25 (bg)	-0.5046	-36	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-3 (bg)	-0.1642	-21	-48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWA-4 (bg)</b>	<b>1.025</b>	<b>57</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWA-5 (bg)	0	12	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-12	0	1	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-14	0.7636	31	48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-17</b>	<b>5.685</b>	<b>76</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-18	9.39	24	48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-19</b>	<b>2.231</b>	<b>54</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-21	0.36	17	48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-22</b>	<b>2.039</b>	<b>61</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-23	-1.669	-37	-48	No	14	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-7</b>	<b>-2.838</b>	<b>-60</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-8	0.869	25	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-9	0.4345	13	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-1 (bg)	-0.1384	-44	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-2 (bg)	-0.07733	-43	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-24 (bg)	-0.04722	-25	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-25 (bg)	-0.07799	-13	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWA-3 (bg)</b>	<b>-0.4335</b>	<b>-67</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWA-4 (bg)	-0.08034	-36	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-5 (bg)	-0.09759	-46	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-10	-0.2179	-31	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-11	-0.2005	-21	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-12	0.1359	27	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-13</b>	<b>0.7317</b>	<b>55</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-14	0	-24	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-15	0	3	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-16	0.04932	8	48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-17	-0.1527	-41	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-18</b>	<b>2.444</b>	<b>70</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-19	-0.1441	-38	-48	No	14	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:56 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	SGWC-20	0	7	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-21</b>	<b>0.7892</b>	<b>57</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-22	0	-4	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-23	0	2	48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-7</b>	<b>-0.8428</b>	<b>-75</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>SGWC-8</b>	<b>-0.6822</b>	<b>-56</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>SGWC-9</b>	<b>1.476</b>	<b>67</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWA-1 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-2 (bg)	0	-31	-63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-24 (bg)	0	-25	-63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-25 (bg)	0	-26	-63	No	17	58.82	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-3 (bg)	0	1	63	No	17	70.59	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-4 (bg)	0	-37	-63	No	17	52.94	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-5 (bg)	0	1	63	No	17	88.24	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-15	0	0	63	No	17	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>SGWC-20</b>	<b>-0.03715</b>	<b>-72</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWC-21	0	-19	-63	No	17	41.18	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-6	-0.003401	-17	-63	No	17	17.65	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>SGWC-7</b>	<b>-0.01539</b>	<b>-68</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWC-8	-0.03436	-45	-63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-1 (bg)	-0.04921	-40	-53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-2 (bg)	0.02062	13	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-24 (bg)	0	-2	-53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-25 (bg)	-0.02203	-36	-53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-3 (bg)	0.0302	23	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-4 (bg)	0	0	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-5 (bg)	0.02566	17	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-15	-0.0315	-38	-53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-18	0.006926	9	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-20	-0.006939	-5	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-1 (bg)	-0.06807	-13	-48	No	14	28.57	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-2 (bg)	0.03617	37	48	No	14	64.29	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-24 (bg)	0	-1	-48	No	14	85.71	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-25 (bg)	0	-13	-48	No	14	78.57	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-3 (bg)	-0.145	-20	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWA-4 (bg)</b>	<b>-0.3042</b>	<b>-51</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWA-5 (bg)	0	34	48	No	14	78.57	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-10	0.5177	7	48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-12</b>	<b>6.134</b>	<b>65</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-13	0	0	48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-14	0	-16	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-15	0	0	48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-16</b>	<b>6.253</b>	<b>85</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-17</b>	<b>18.73</b>	<b>77</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-18	139.1	32	48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-19	9.696	34	48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-20</b>	<b>-13.39</b>	<b>-52</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-21</b>	<b>6.001</b>	<b>51</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-22</b>	<b>5.269</b>	<b>55</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-23</b>	<b>-12</b>	<b>-63</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-7</b>	<b>-1.937</b>	<b>-49</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-8	1.868	31	48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-9	4.716	21	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-1 (bg)	-8.512	-35	-48	No	14	7.143	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-2 (bg)	0	-5	-48	No	14	0	n/a	n/a	0.01	NP



# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 3

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:56 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>
Total Dissolved Solids [TDS] (mg/L)	SGWA-24 (bg)	0	-1	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-25 (bg)	-10.27	-36	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-3 (bg)	-5.131	-12	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-4 (bg)	11.15	30	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-5 (bg)	-6.069	-25	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	0	1	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	6.566	24	48	No	14	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>SGWC-17</b>	<b>28.55</b>	<b>66</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	199	29	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	0	4	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	-6.518	-14	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	-0.4051	-11	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	12.43	39	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	-18.96	-29	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	-3.386	-13	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	11.62	20	48	No	14	0	n/a	n/a	0.01	NP

FIGURE F.

# Tolerance Limit Summary Table

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0021	n/a	n/a	n/a	n/a	91	n/a	n/a	93.41	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0015	n/a	n/a	n/a	n/a	112	n/a	n/a	82.14	n/a	n/a	0.003199	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	112	n/a	n/a	0	n/a	n/a	0.003199	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	112	n/a	n/a	95.54	n/a	n/a	0.003199	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	105	n/a	n/a	98.1	n/a	n/a	0.004581	NP Inter(NDs)
Chromium (mg/L)	n/a	0.02	n/a	n/a	n/a	n/a	112	n/a	n/a	33.04	n/a	n/a	0.003199	NP Inter(normality)
Cobalt (mg/L)	n/a	0.02	n/a	n/a	n/a	n/a	112	n/a	n/a	63.39	n/a	n/a	0.003199	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.2	n/a	n/a	n/a	n/a	112	n/a	n/a	0	n/a	n/a	0.003199	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.108	n/a	n/a	n/a	n/a	119	n/a	n/a	69.75	n/a	n/a	0.002234	NP Inter(NDs)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	112	n/a	n/a	94.64	n/a	n/a	0.003199	NP Inter(NDs)
Lithium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	112	n/a	n/a	91.07	n/a	n/a	0.003199	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	114	n/a	n/a	88.6	n/a	n/a	0.002887	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a	105	n/a	n/a	88.57	n/a	n/a	0.004581	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	112	n/a	n/a	88.39	n/a	n/a	0.003199	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	112	n/a	n/a	93.75	n/a	n/a	0.003199	NP Inter(NDs)

FIGURE G.

<b>SCHERER ASH POND GWPS - FEDERAL</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.0021	0.006
Arsenic, Total (mg/L)	0.01		0.0015	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.02	0.1
Cobalt, Total (mg/L)		0.006	0.02	0.02
Combined Radium, Total (pCi/L)	5		1.2	5
Fluoride, Total (mg/L)	4		0.108	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.005	0.04
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

*\*GWPS = Groundwater Protection Standard*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residuals*

FIGURE H.

<b>SCHERER ASH POND GWPS - STATE</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.0021	0.006
Arsenic, Total (mg/L)	0.01		0.0015	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.02	0.1
Cobalt, Total (mg/L)		0.006	0.02	0.02
Combined Radium, Total (pCi/L)	5		1.2	5
Fluoride, Total (mg/L)	4		0.108	4
Lead, Total (mg/L)		0.015	0.001	0.001
Lithium, Total (mg/L)		0.04	0.005	0.005
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.015
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

*\*GWPS = Groundwater Protection Standard*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residuals*

FIGURE I.



# Federal Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	SGWC-10	0.03322	0.02069	0.02	Yes 16	0.02696	0.009627	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-11	0.03018	0.02357	0.02	Yes 16	0.02688	0.005085	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-15	0.2797	0.2606	0.02	Yes 16	0.2701	0.01468	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-18	0.1665	0.1181	0.02	Yes 16	0.1423	0.03716	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-20	0.2313	0.1689	0.02	Yes 16	0.2001	0.04797	0	None	No	0.01	Param.

# Federal Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	SGWC-10	0.002	0.0014	0.006	No	12	0.00195	0.0001732	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-13	0.002	0.0004	0.006	No	12	0.001867	0.0004619	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-18	0.002	0.002	0.006	No	11	0.001927	0.0002412	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	SGWC-7	0.002	0.0004	0.006	No	12	0.001867	0.0004619	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	16	0.0009269	0.0001633	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.0011	0.00076	0.01	No	16	0.001007	0.0001144	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-12	0.0011	0.00046	0.01	No	16	0.0008606	0.0002722	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	16	0.000965	0.0001883	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	16	0.0009656	0.0002053	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.001318	0.0008083	0.01	No	16	0.001204	0.0005106	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	16	0.0009431	0.0001554	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001045	0.00075	0.01	No	16	0.0009247	0.0001461	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.002987	0.001444	0.01	No	16	0.002216	0.001186	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	16	0.0009538	0.0001277	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.0018	0.0005	0.01	No	16	0.0009238	0.0003349	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	16	0.000985	0.00006	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.0006	0.01	No	16	0.0008863	0.0002343	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	16	0.0009625	0.0001076	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	16	0.0009063	0.0002041	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.00059	0.01	No	16	0.00089	0.0001836	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.00053	0.01	No	16	0.0008606	0.0002276	62.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00068	0.01	No	16	0.0008719	0.0001968	50	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-10	0.03308	0.02801	2	No	16	0.03054	0.0039	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.042	0.03679	2	No	16	0.03939	0.003998	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.052	0.0321	2	No	16	0.04216	0.008973	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-13	0.03368	0.02552	2	No	16	0.0296	0.006267	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.06131	0.05316	2	No	16	0.05724	0.006267	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.04004	0.0339	2	No	16	0.03697	0.004713	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.027	0.017	2	No	16	0.02143	0.004687	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-17	0.02176	0.01821	2	No	16	0.01999	0.002729	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.032	0.013	2	No	16	0.02096	0.008194	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-19	0.04262	0.03491	2	No	16	0.03876	0.005929	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03641	0.02674	2	No	16	0.03158	0.007429	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.09766	0.08992	2	No	16	0.09379	0.005947	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-22	0.09365	0.08261	2	No	16	0.08813	0.008485	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.0882	0.07287	2	No	16	0.08054	0.011178	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-6	0.09899	0.05454	2	No	16	0.07677	0.03416	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.3078	0.2569	2	No	16	0.2824	0.03913	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.2	0.17	2	No	16	0.1841	0.02205	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-9	0.06978	0.05595	2	No	16	0.06287	0.01063	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	16	0.00236	0.00056	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	16	0.002377	0.0004925	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00059	0.00035	0.004	No	16	0.0007962	0.0008477	18.75	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-18	0.0025	0.00033	0.004	No	16	0.001563	0.001098	56.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	16	0.00221	0.0007925	87.5	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0008151	0.0006414	0.004	No	16	0.0007283	0.0001335	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	16	0.002356	0.000575	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	16	0.002218	0.0007705	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	15	0.002214	0.0007599	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.0003	0.005	No	15	0.001493	0.001115	53.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-18	0.0025	0.0002	0.005	No	15	0.001739	0.001114	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	15	0.002357	0.0005525	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	15	0.002181	0.0008431	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	15	0.002359	0.0005448	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	15	0.002348	0.0005887	93.33	None	No	0.01	NP (NDs)

# Federal Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	15	0.002354	0.0005655	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	16	0.002019	0.000075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	16	0.001981	0.000075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-14	0.0026	0.0016	0.1	No	16	0.001831	0.0004316	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03532	0.03223	0.1	No	16	0.03378	0.002373	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01155	0.009227	0.1	No	16	0.01043	0.001832	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	SGWC-17	0.006314	0.003767	0.1	No	16	0.005041	0.001958	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.009357	0.00702	0.1	No	16	0.008188	0.001796	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01609	0.01431	0.1	No	16	0.0152	0.001371	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	16	0.001944	0.0002828	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.0016	0.1	No	16	0.001894	0.0002407	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0024	0.0015	0.1	No	16	0.001813	0.0004334	68.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0024	0.0013	0.1	No	16	0.00185	0.0004033	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0013	0.1	No	16	0.001825	0.0004879	50	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-10</b>	<b>0.03322</b>	<b>0.02069</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.02696</b>	<b>0.009627</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>SGWC-11</b>	<b>0.03018</b>	<b>0.02357</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.02688</b>	<b>0.005085</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-12	0.004258	0.003054	0.02	No	16	0.003686	0.0009908	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.008664	0.003761	0.02	No	16	0.006213	0.003768	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01255	0.007132	0.02	No	16	0.009841	0.004163	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>SGWC-15</b>	<b>0.2797</b>	<b>0.2606</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.2701</b>	<b>0.01468</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-16	0.004076	0.00329	0.02	No	16	0.003683	0.0006036	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.0025	0.00041	0.02	No	16	0.001034	0.000886	25	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-18</b>	<b>0.1665</b>	<b>0.1181</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.1423</b>	<b>0.03716</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-19	0.0025	0.00015	0.02	No	16	0.001492	0.001063	50	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-20</b>	<b>0.2313</b>	<b>0.1689</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.2001</b>	<b>0.04797</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-21	0.0025	0.00014	0.02	No	16	0.001906	0.001063	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003758	0.00211	0.02	No	16	0.003006	0.001368	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	16	0.002352	0.0005925	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.002537	0.000925	0.02	No	16	0.002013	0.001219	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	SGWC-7	0.01199	0.005668	0.02	No	16	0.008831	0.004861	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.00265	0.00032	0.02	No	16	0.001871	0.001012	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01399	0.007868	0.02	No	16	0.01093	0.004708	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.496	0.0159	5	No	16	0.323	0.3868	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.5635	0.1801	5	No	16	0.3718	0.2946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4647	0.1447	5	No	16	0.3047	0.246	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4462	0.1087	5	No	16	0.2775	0.2594	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.4147	0.07217	5	No	16	0.2434	0.2633	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.478	0.2068	5	No	16	0.3424	0.2084	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.4004	0.117	5	No	16	0.2587	0.2178	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.4117	0.1464	5	No	16	0.2791	0.2039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.4168	0.1967	5	No	16	0.3067	0.1691	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.3244	0.07902	5	No	16	0.2017	0.1886	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.6175	0.2923	5	No	16	0.4549	0.2499	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.4553	0.1687	5	No	16	0.312	0.2202	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.4219	0.1322	5	No	16	0.3019	0.2581	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6481	0.3742	5	No	16	0.5112	0.2105	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.4151	0.1073	5	No	16	0.2612	0.2365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.5146	0.2898	5	No	16	0.4022	0.1728	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.585	2.017	5	No	16	2.301	0.4365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.4077	0.1099	5	No	16	0.2588	0.2288	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-10	0.1	0.031	4	No	17	0.09118	0.025	88.24	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	17	0.09241	0.01883	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.1079	0.06648	4	No	17	0.09588	0.03159	23.53	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.15	0.045	4	No	17	0.08847	0.03118	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.031	4	No	17	0.07976	0.03244	70.59	Kaplan-Meier	No	0.01	NP (NDs)

# Federal Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	17	0.1417	0.06142	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.09	4	No	17	0.08988	0.02694	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.1	0.047	4	No	17	0.08559	0.03309	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-18	0.18	0.091	4	No	17	0.09349	0.03253	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.18	0.057	4	No	17	0.09704	0.03136	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2758	0.1876	4	No	17	0.2346	0.0754	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09982	0.06935	4	No	17	0.09465	0.02244	41.18	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.1	4	No	17	0.08806	0.02669	76.47	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-23	0.1	0.044	4	No	17	0.08024	0.02659	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-6	0.14	0.092	4	No	17	0.1192	0.03685	17.65	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-7	0.2256	0.1809	4	No	17	0.2032	0.03566	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.477	0.3632	4	No	17	0.4201	0.09082	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.1	0.074	4	No	17	0.08912	0.02156	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.015	No	16	0.0008919	0.0002955	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.015	No	16	0.0009619	0.0001525	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.015	No	16	0.0009263	0.0002212	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.015	No	16	0.0009519	0.0001925	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.015	No	16	0.0009456	0.0002175	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00027	0.015	No	16	0.0007038	0.0003528	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-21	0.001	0.00009	0.015	No	16	0.0009431	0.0002275	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00018	0.015	No	16	0.0009488	0.000205	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.015	No	16	0.0009431	0.0002275	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.015	No	16	0.00095	0.0002	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.015	No	16	0.0009906	0.0000375	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00029	0.015	No	16	0.0009556	0.0001775	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.04	No	16	0.003987	0.001431	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0011	0.04	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.04	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0011	0.04	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.003	0.04	No	16	0.004125	0.0009815	50	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.04	No	16	0.004781	0.000875	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.04	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004682	0.003727	0.04	No	16	0.004662	0.0006908	31.25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.04	No	16	0.004644	0.0009736	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004934	0.003919	0.04	No	15	0.004427	0.0007488	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0027	0.04	No	16	0.004356	0.001249	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.04	No	16	0.0045	0.001151	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.04	No	16	0.004162	0.0008884	37.5	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-7	0.005447	0.0041	0.04	No	15	0.004773	0.0009939	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.002	0.04	No	16	0.004031	0.001497	68.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	16	0.0001956	0.0000175	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	16	0.0001933	0.00002675	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	16	0.0001818	0.00003952	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00011	0.002	No	16	0.0001504	0.00004629	37.5	None	No	0.01	NP (normality)
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	16	0.0001922	0.000031	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00011	0.002	No	16	0.0001887	0.00003074	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.0001862	0.00009871	0.002	No	16	0.0001754	0.00004905	31.25	Kaplan-Meier	x^2	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.000082	0.002	No	16	0.0001847	0.00004187	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	16	0.0001937	0.00002525	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	16	0.0001857	0.00004896	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)

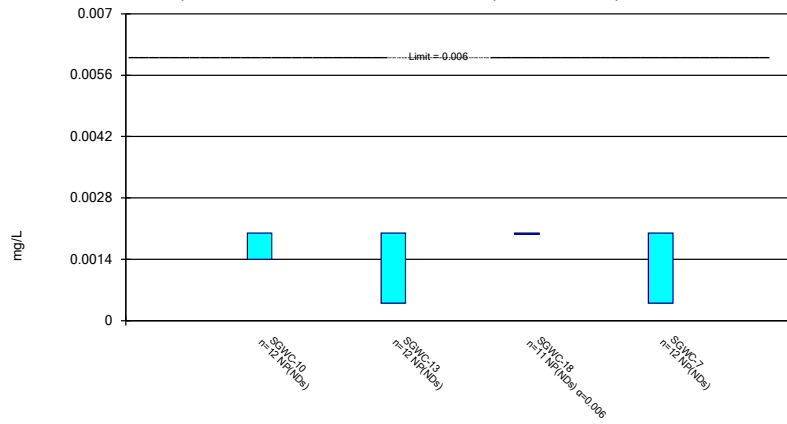
# Federal Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	16	0.0001922	0.000031	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.1	No	15	0.01315	0.004873	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.1	No	15	0.01325	0.004626	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.1	No	15	0.01311	0.004981	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.015	0.0013	0.1	No	15	0.005502	0.005978	26.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.1	No	15	0.01405	0.003666	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00075	0.1	No	15	0.007569	0.007203	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No	16	0.004716	0.001135	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No	16	0.004707	0.001172	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No	16	0.004434	0.001549	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No	16	0.004469	0.001452	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.003479	0.0008276	0.05	No	16	0.003881	0.002926	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	SGWC-16	0.005	0.0012	0.05	No	16	0.003596	0.001896	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No	16	0.004135	0.001861	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.01429	0.004705	0.05	No	16	0.01029	0.008488	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00096	0.05	No	16	0.004193	0.001737	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.0053	0.00066	0.05	No	16	0.003647	0.001995	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00033	0.05	No	16	0.004112	0.001908	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No	16	0.004139	0.001851	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No	16	0.004709	0.001165	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No	16	0.0009281	0.0002295	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No	16	0.0009475	0.00021	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No	16	0.0009588	0.000165	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00018	0.002	No	16	0.000955	0.0002082	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.000095	0.002	No	16	0.0004739	0.0004315	37.5	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-18	0.00029	0.00012	0.002	No	16	0.0002503	0.0002405	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00021	0.00014	0.002	No	16	0.0002269	0.000213	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No	16	0.0009231	0.0002135	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00022	0.002	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No	16	0.0008888	0.0002682	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.00027	0.002	No	16	0.0009544	0.0001825	93.75	None	No	0.01	NP (NDs)

### Non-Parametric Confidence Interval

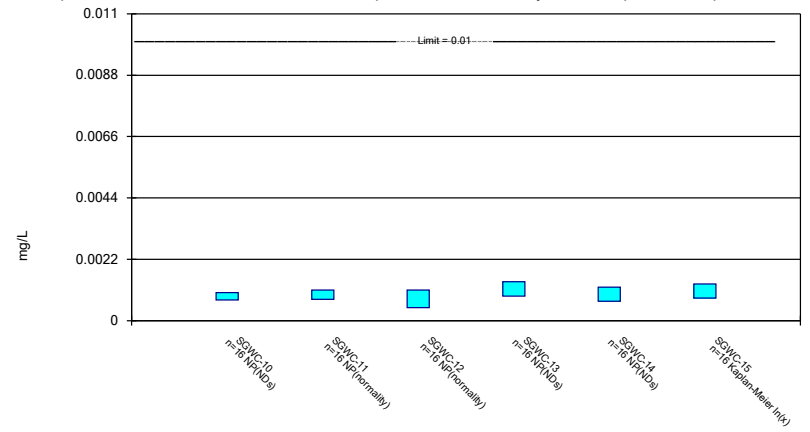
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

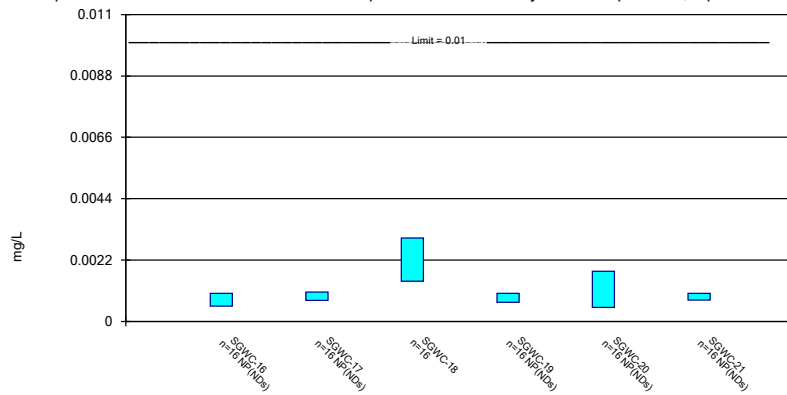
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

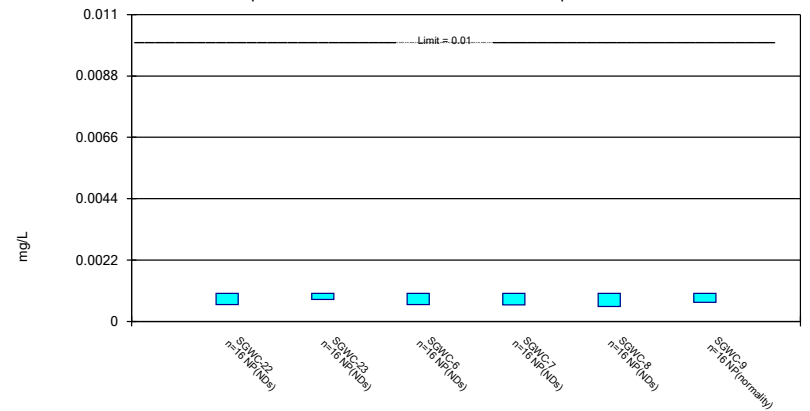
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

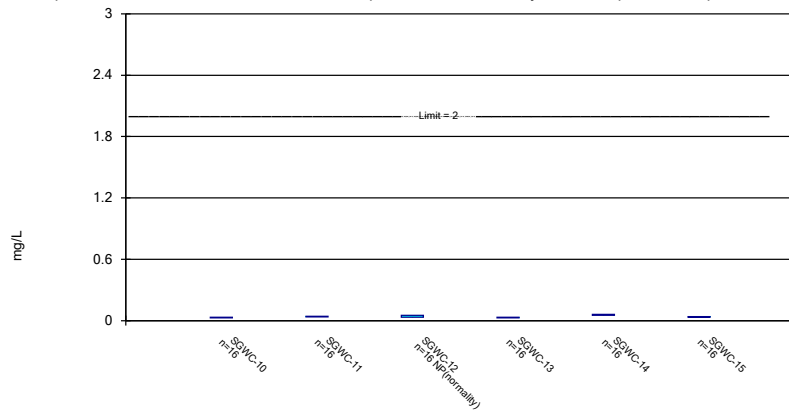
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

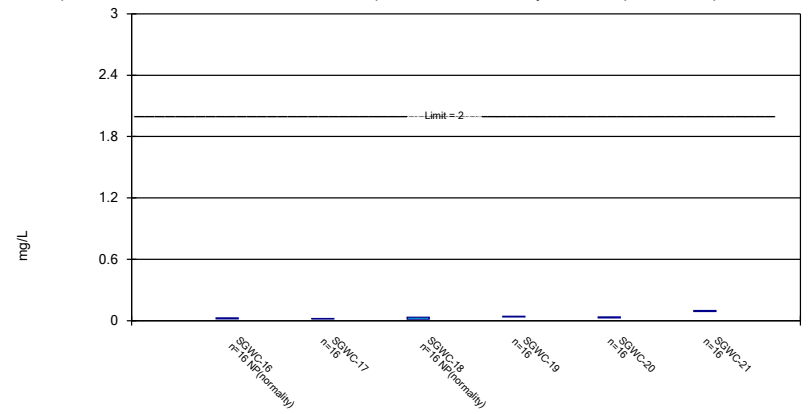
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

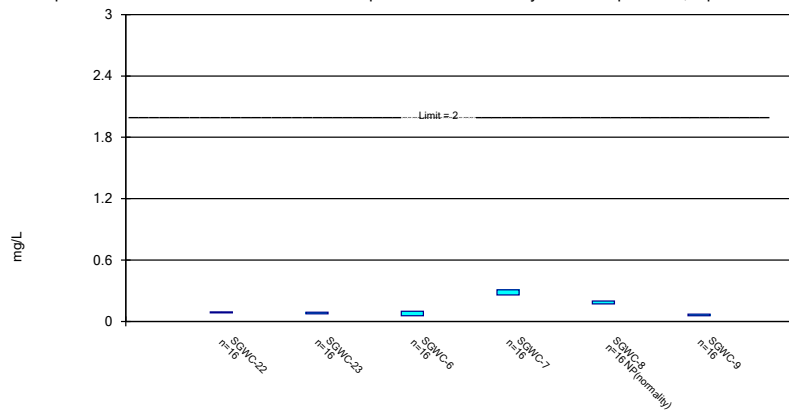
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

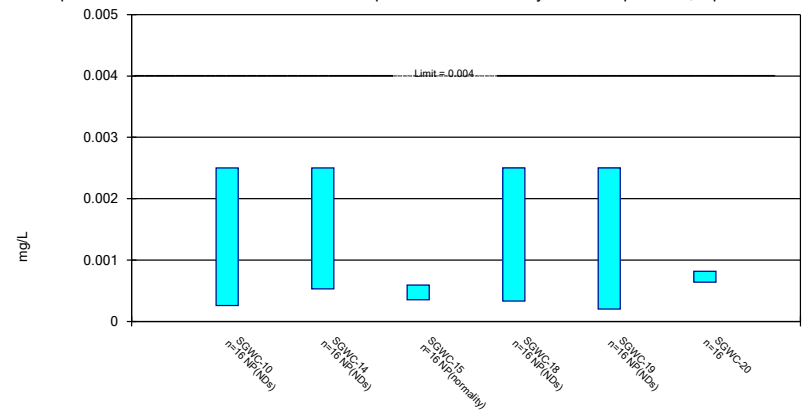
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

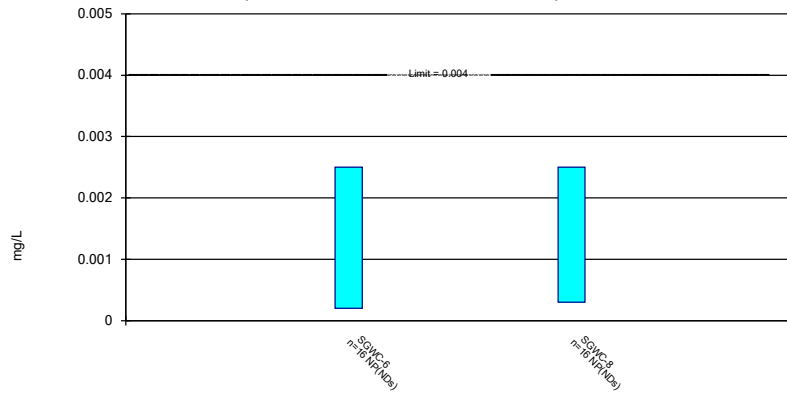
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

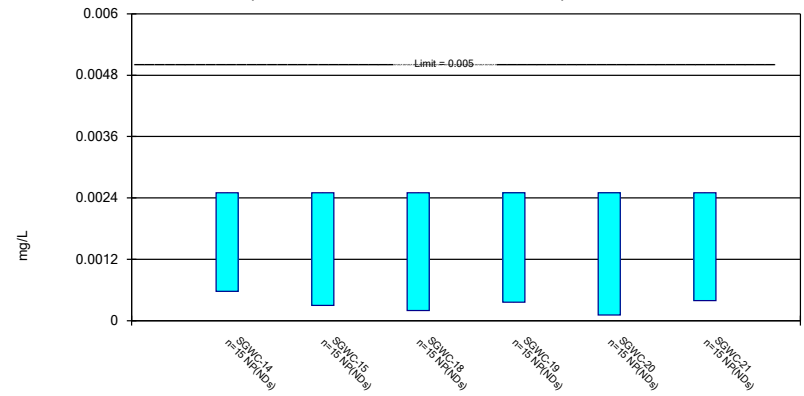
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

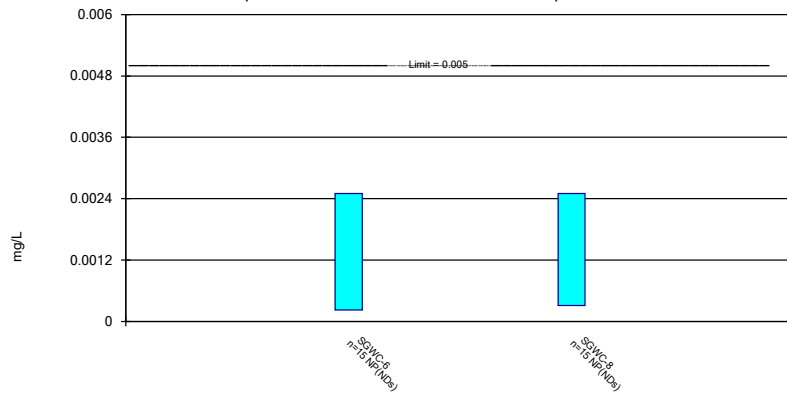
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

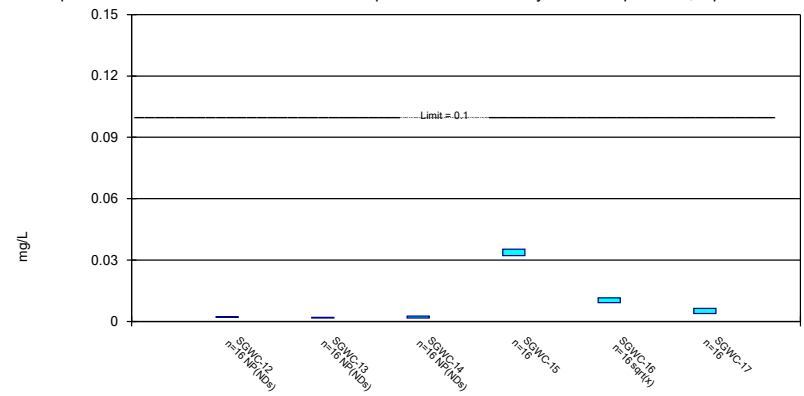
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

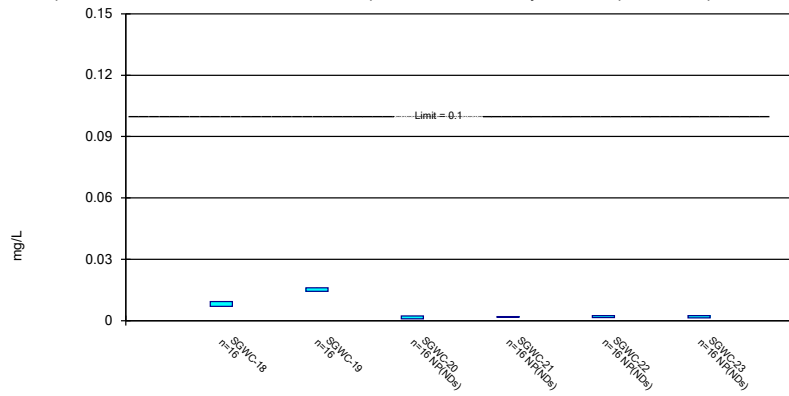


Constituent: Chromium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP



### Parametric and Non-Parametric (NP) Confidence Interval

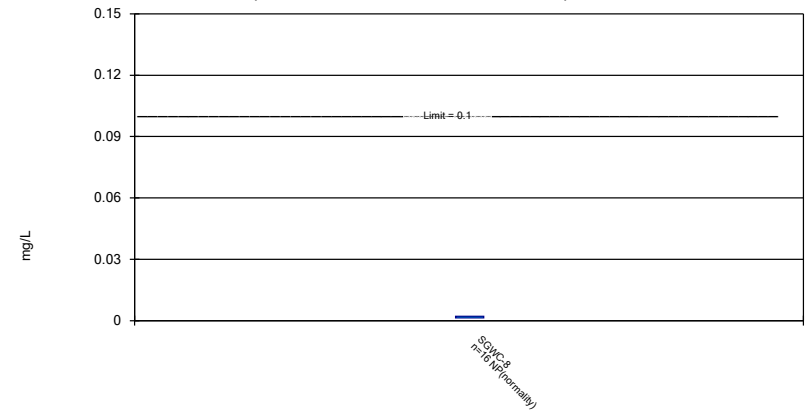
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

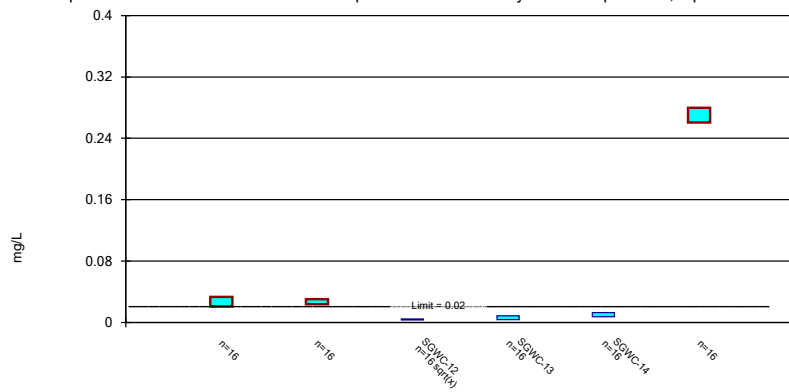
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric Confidence Interval

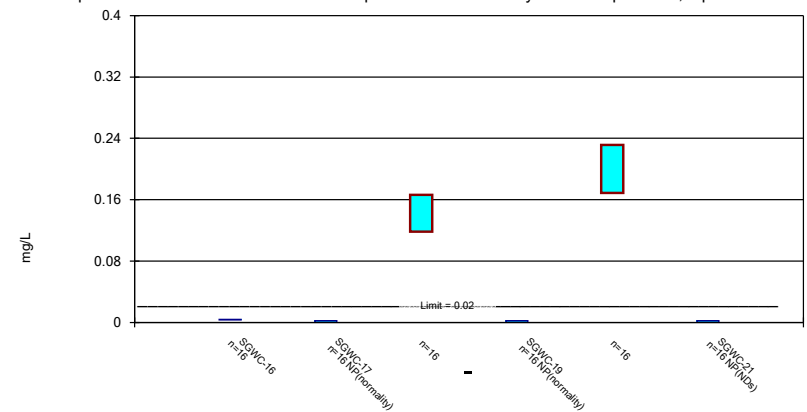
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

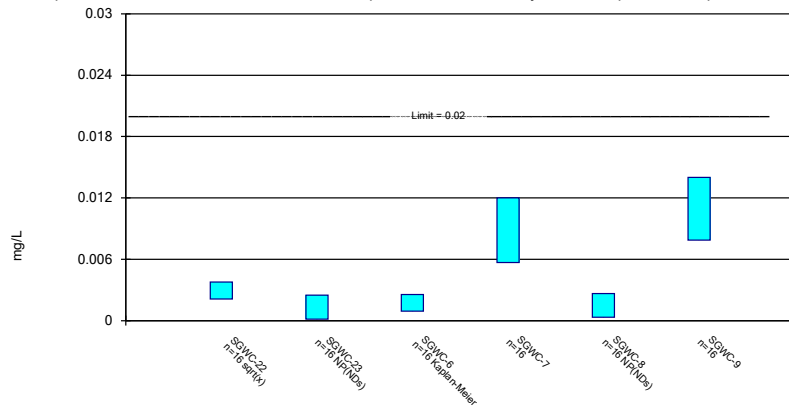
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

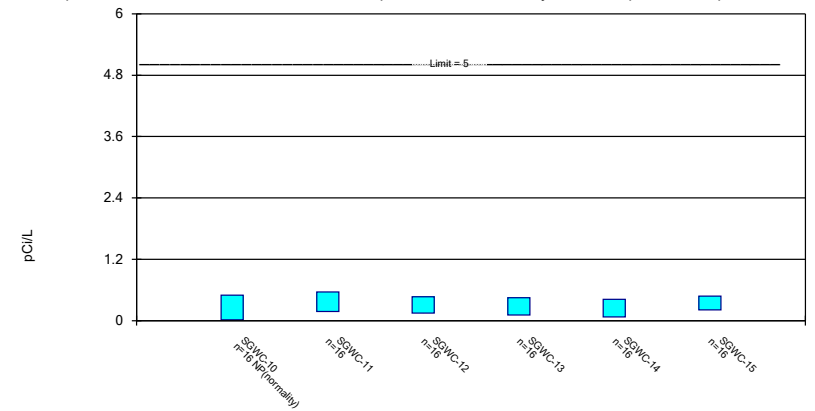
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

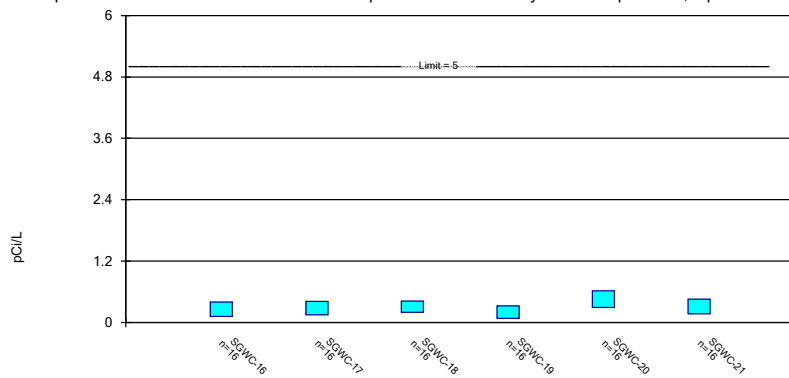
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

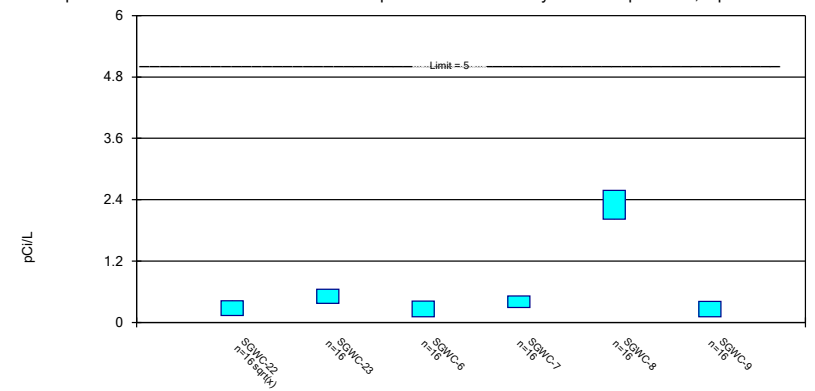
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

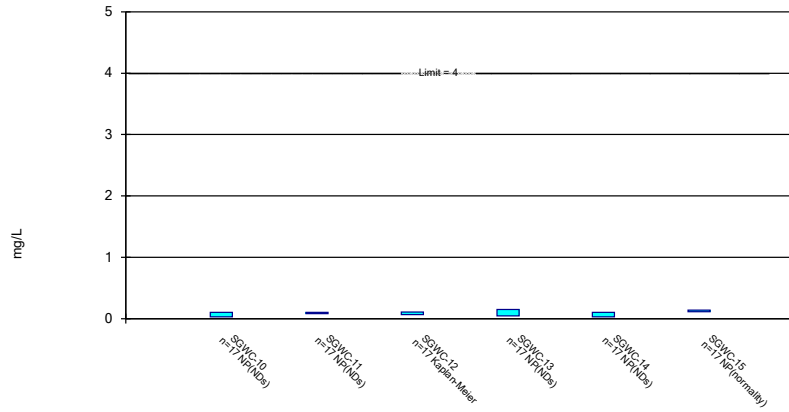
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

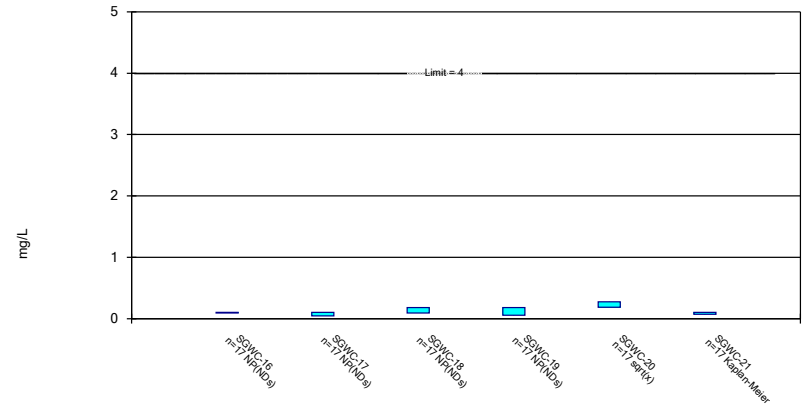
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

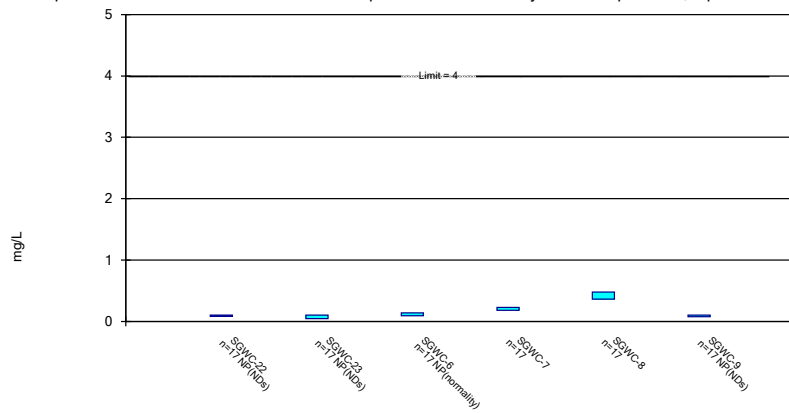
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

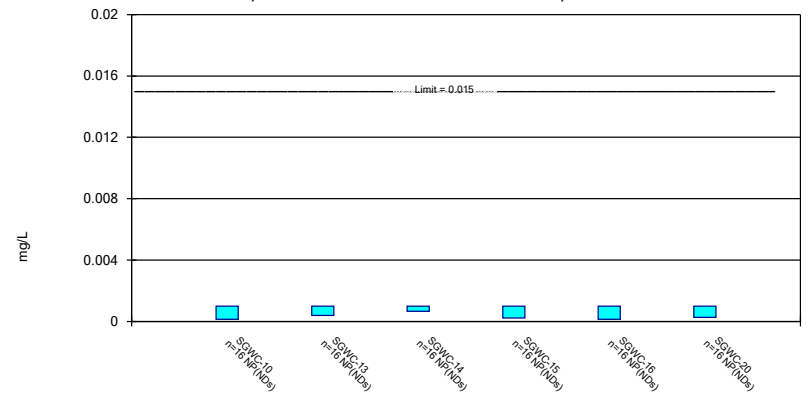
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

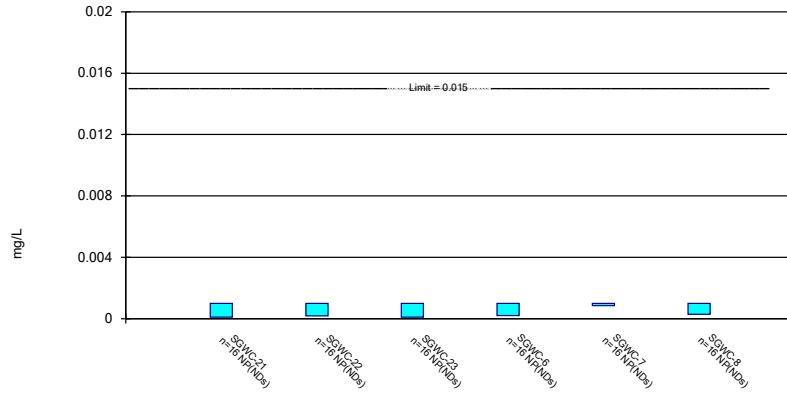
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

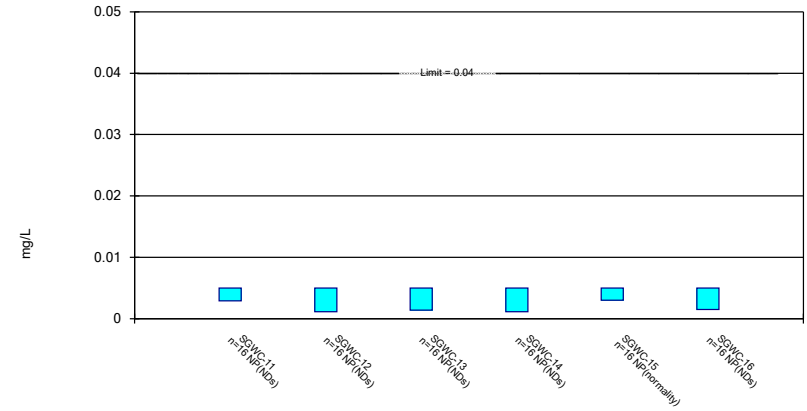
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

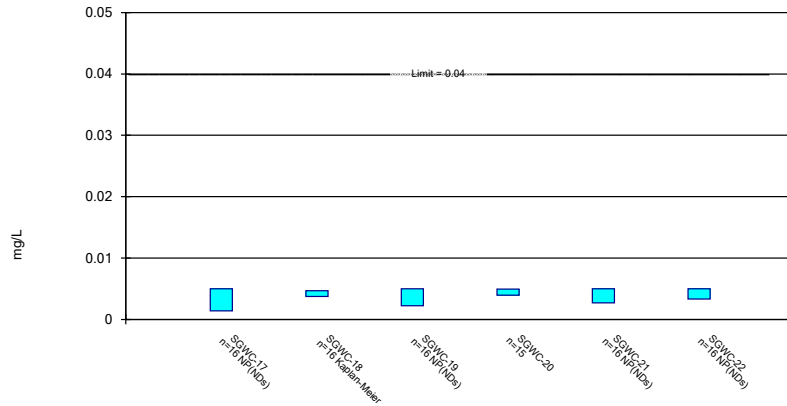
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

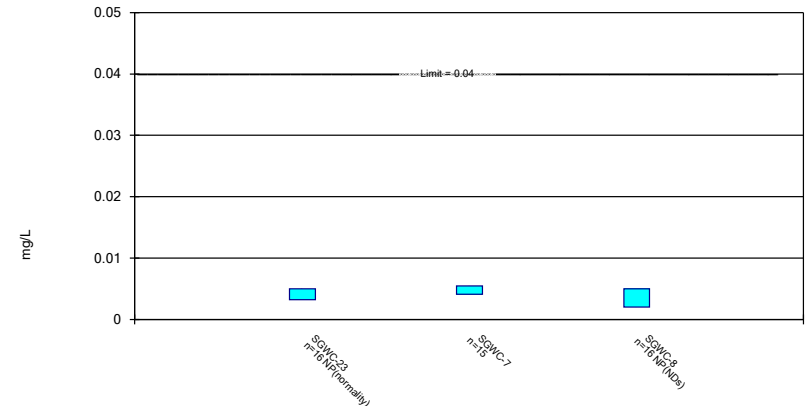
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

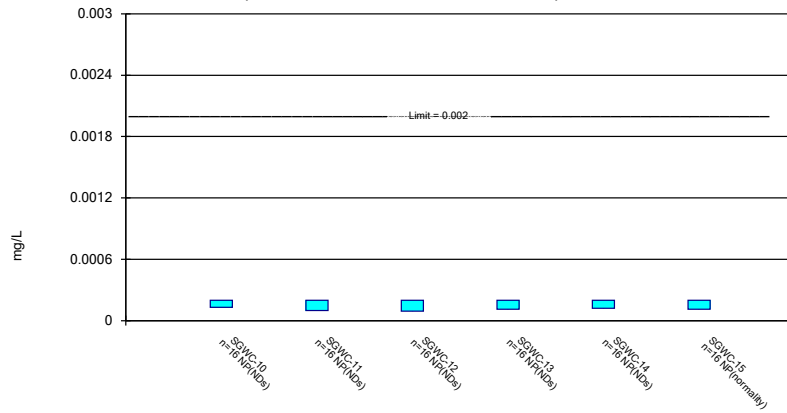
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

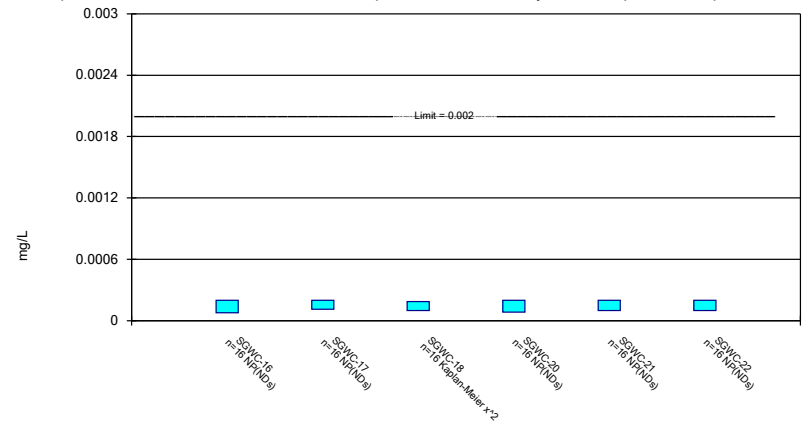
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

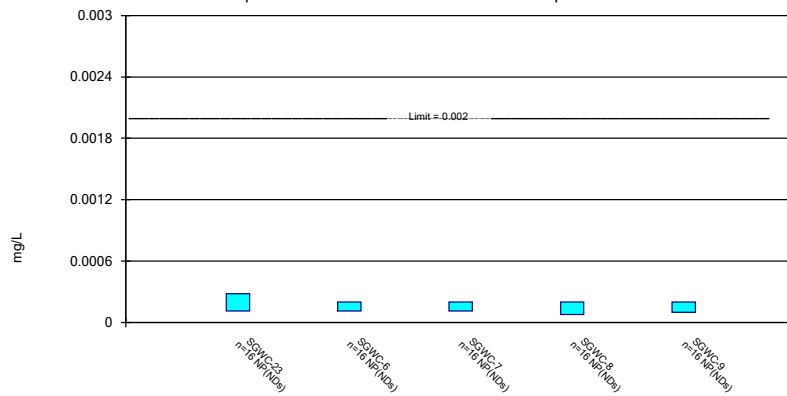
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

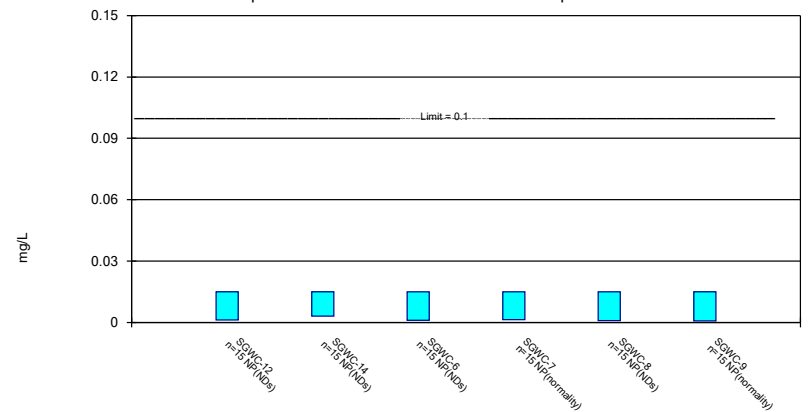
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

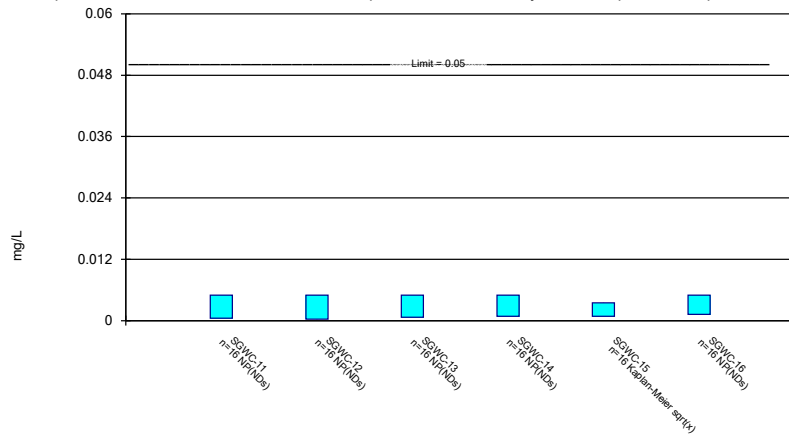
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

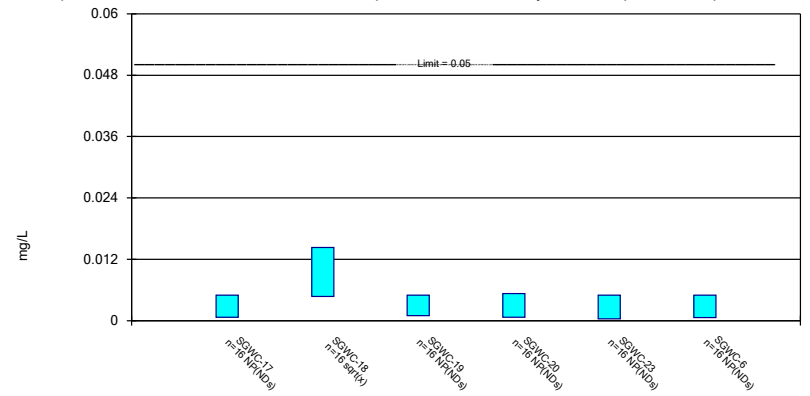
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

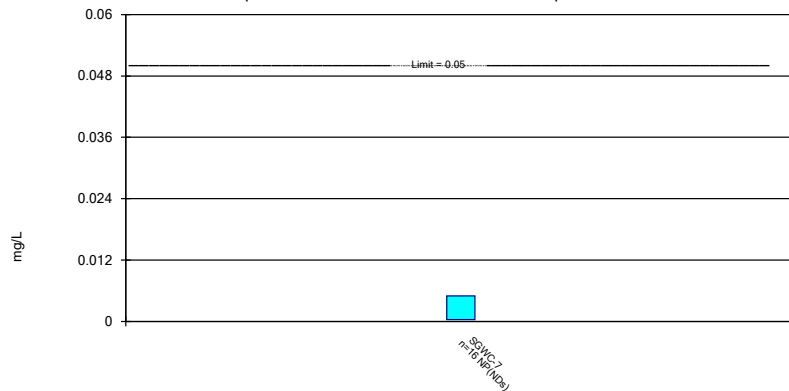
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

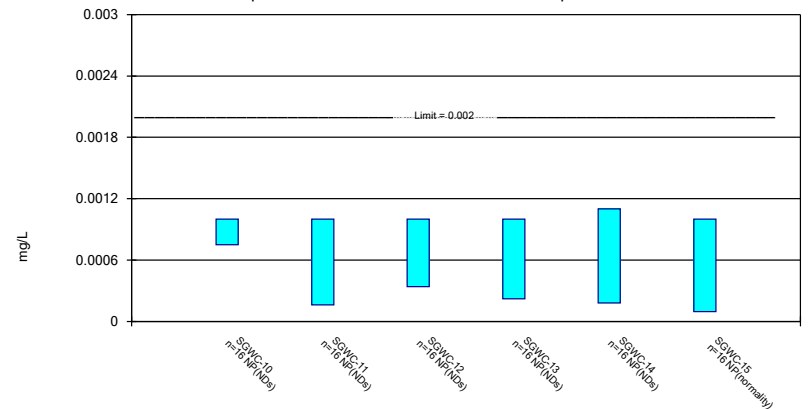
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

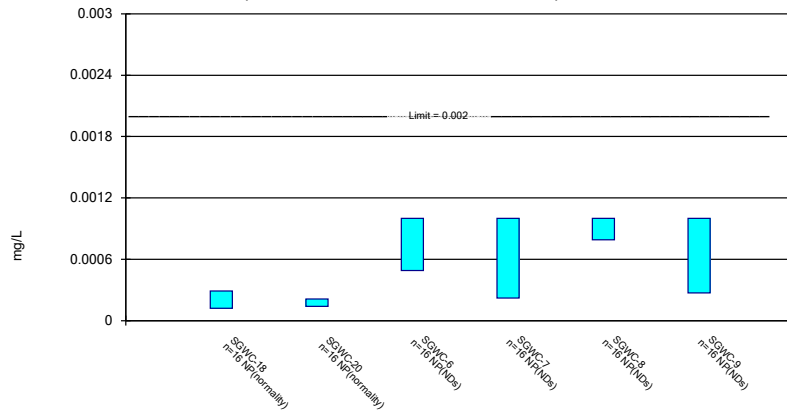
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/16/2020 2:38 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

FIGURE J.



# State Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	SGWC-10	0.03322	0.02069	0.02	Yes 16	0.02696	0.009627	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-11	0.03018	0.02357	0.02	Yes 16	0.02688	0.005085	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-15	0.2797	0.2606	0.02	Yes 16	0.2701	0.01468	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-18	0.1665	0.1181	0.02	Yes 16	0.1423	0.03716	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-20	0.2313	0.1689	0.02	Yes 16	0.2001	0.04797	0	None	No	0.01	Param.

# State Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 6/16/2020, 2:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	SGWC-10	0.002	0.0014	0.006	No	12	0.00195	0.0001732	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-13	0.002	0.0004	0.006	No	12	0.001867	0.0004619	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	SGWC-18	0.002	0.002	0.006	No	11	0.001927	0.0002412	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	SGWC-7	0.002	0.0004	0.006	No	12	0.001867	0.0004619	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	16	0.0009269	0.0001633	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.0011	0.00076	0.01	No	16	0.001007	0.0001144	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-12	0.0011	0.00046	0.01	No	16	0.0008606	0.0002722	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	16	0.000965	0.0001883	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	16	0.0009656	0.0002053	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.001318	0.0008083	0.01	No	16	0.001204	0.0005106	25	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	16	0.0009431	0.0001554	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001045	0.00075	0.01	No	16	0.0009247	0.0001461	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.002987	0.001444	0.01	No	16	0.002216	0.001186	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	16	0.0009538	0.0001277	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.0018	0.0005	0.01	No	16	0.0009238	0.0003349	56.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	16	0.000985	0.00006	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.0006	0.01	No	16	0.0008863	0.0002343	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	16	0.0009625	0.0001076	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	16	0.0009063	0.0002041	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.00059	0.01	No	16	0.00089	0.0001836	68.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.00053	0.01	No	16	0.0008606	0.0002276	62.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00068	0.01	No	16	0.0008719	0.0001968	50	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-10	0.03308	0.02801	2	No	16	0.03054	0.0039	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.042	0.03679	2	No	16	0.03939	0.003998	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.052	0.0321	2	No	16	0.04216	0.008973	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-13	0.03368	0.02552	2	No	16	0.0296	0.006267	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.06131	0.05316	2	No	16	0.05724	0.006267	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.04004	0.0339	2	No	16	0.03697	0.004713	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.027	0.017	2	No	16	0.02143	0.004687	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-17	0.02176	0.01821	2	No	16	0.01999	0.002729	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.032	0.013	2	No	16	0.02096	0.008194	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-19	0.04262	0.03491	2	No	16	0.03876	0.005929	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03641	0.02674	2	No	16	0.03158	0.007429	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.09766	0.08992	2	No	16	0.09379	0.005947	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-22	0.09365	0.08261	2	No	16	0.08813	0.008485	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.0882	0.07287	2	No	16	0.08054	0.011178	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-6	0.09899	0.05454	2	No	16	0.07677	0.03416	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.3078	0.2569	2	No	16	0.2824	0.03913	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.2	0.17	2	No	16	0.1841	0.02205	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-9	0.06978	0.05595	2	No	16	0.06287	0.01063	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	16	0.00236	0.00056	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	16	0.002377	0.0004925	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00059	0.00035	0.004	No	16	0.0007962	0.0008477	18.75	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-18	0.0025	0.00033	0.004	No	16	0.001563	0.001098	56.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	16	0.00221	0.0007925	87.5	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0008151	0.0006414	0.004	No	16	0.0007283	0.0001335	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	16	0.002356	0.000575	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	16	0.002218	0.0007705	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	15	0.002214	0.0007599	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.0003	0.005	No	15	0.001493	0.001115	53.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-18	0.0025	0.0002	0.005	No	15	0.001739	0.001114	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	15	0.002357	0.0005525	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	15	0.002181	0.0008431	86.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	15	0.002359	0.0005448	93.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	15	0.002348	0.0005887	93.33	None	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	15	0.002354	0.0005655	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	16	0.002019	0.000075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	16	0.001981	0.000075	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-14	0.0026	0.0016	0.1	No	16	0.001831	0.0004316	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03532	0.03223	0.1	No	16	0.03378	0.002373	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01155	0.009227	0.1	No	16	0.01043	0.001832	0	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	SGWC-17	0.006314	0.003767	0.1	No	16	0.005041	0.001958	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.009357	0.00702	0.1	No	16	0.008188	0.001796	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01609	0.01431	0.1	No	16	0.0152	0.001371	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	16	0.001944	0.0002828	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.0016	0.1	No	16	0.001894	0.0002407	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0024	0.0015	0.1	No	16	0.001813	0.0004334	68.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0024	0.0013	0.1	No	16	0.00185	0.0004033	56.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0013	0.1	No	16	0.001825	0.0004879	50	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-10</b>	<b>0.03322</b>	<b>0.02069</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.02696</b>	<b>0.009627</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>SGWC-11</b>	<b>0.03018</b>	<b>0.02357</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.02688</b>	<b>0.005085</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-12	0.004258	0.003054	0.02	No	16	0.003686	0.0009908	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.008664	0.003761	0.02	No	16	0.006213	0.003768	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01255	0.007132	0.02	No	16	0.009841	0.004163	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>SGWC-15</b>	<b>0.2797</b>	<b>0.2606</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.2701</b>	<b>0.01468</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-16	0.004076	0.00329	0.02	No	16	0.003683	0.0006036	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.0025	0.00041	0.02	No	16	0.001034	0.000886	25	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-18</b>	<b>0.1665</b>	<b>0.1181</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.1423</b>	<b>0.03716</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-19	0.0025	0.00015	0.02	No	16	0.001492	0.001063	50	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-20</b>	<b>0.2313</b>	<b>0.1689</b>	<b>0.02</b>	<b>Yes</b>	<b>16</b>	<b>0.2001</b>	<b>0.04797</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-21	0.0025	0.00014	0.02	No	16	0.001906	0.001063	75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003758	0.00211	0.02	No	16	0.003006	0.001368	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	16	0.002352	0.0005925	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.002537	0.000925	0.02	No	16	0.002013	0.001219	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	SGWC-7	0.01199	0.005668	0.02	No	16	0.008831	0.004861	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.00265	0.00032	0.02	No	16	0.001871	0.001012	62.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01399	0.007868	0.02	No	16	0.01093	0.004708	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.496	0.0159	5	No	16	0.323	0.3868	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.5635	0.1801	5	No	16	0.3718	0.2946	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4647	0.1447	5	No	16	0.3047	0.246	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4462	0.1087	5	No	16	0.2775	0.2594	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.4147	0.07217	5	No	16	0.2434	0.2633	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.478	0.2068	5	No	16	0.3424	0.2084	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.4004	0.117	5	No	16	0.2587	0.2178	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.4117	0.1464	5	No	16	0.2791	0.2039	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.4168	0.1967	5	No	16	0.3067	0.1691	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.3244	0.07902	5	No	16	0.2017	0.1886	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.6175	0.2923	5	No	16	0.4549	0.2499	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.4553	0.1687	5	No	16	0.312	0.2202	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.4219	0.1322	5	No	16	0.3019	0.2581	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6481	0.3742	5	No	16	0.5112	0.2105	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.4151	0.1073	5	No	16	0.2612	0.2365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.5146	0.2898	5	No	16	0.4022	0.1728	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.585	2.017	5	No	16	2.301	0.4365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.4077	0.1099	5	No	16	0.2588	0.2288	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-10	0.1	0.031	4	No	17	0.09118	0.025	88.24	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	17	0.09241	0.01883	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.1079	0.06648	4	No	17	0.09588	0.03159	23.53	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.15	0.045	4	No	17	0.08847	0.03118	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.031	4	No	17	0.07976	0.03244	70.59	Kaplan-Meier	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	17	0.1417	0.06142	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.09	4	No	17	0.08988	0.02694	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.1	0.047	4	No	17	0.08559	0.03309	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-18	0.18	0.091	4	No	17	0.09349	0.03253	70.59	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.18	0.057	4	No	17	0.09704	0.03136	82.35	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2758	0.1876	4	No	17	0.2346	0.0754	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09982	0.06935	4	No	17	0.09465	0.02244	41.18	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.1	4	No	17	0.08806	0.02669	76.47	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-23	0.1	0.044	4	No	17	0.08024	0.02659	52.94	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-6	0.14	0.092	4	No	17	0.1192	0.03685	17.65	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-7	0.2256	0.1809	4	No	17	0.2032	0.03566	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.477	0.3632	4	No	17	0.4201	0.09082	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.1	0.074	4	No	17	0.08912	0.02156	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.001	No	16	0.0008919	0.0002955	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.001	No	16	0.0009619	0.0001525	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.001	No	16	0.0009263	0.0002212	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.001	No	16	0.0009519	0.0001925	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.001	No	16	0.0009456	0.0002175	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00027	0.001	No	16	0.0007038	0.0003528	56.25	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-21	0.001	0.00009	0.001	No	16	0.0009431	0.0002275	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00018	0.001	No	16	0.0009488	0.000205	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.001	No	16	0.0009431	0.0002275	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.001	No	16	0.00095	0.0002	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.001	No	16	0.0009906	0.0000375	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00029	0.001	No	16	0.0009556	0.0001775	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.005	No	16	0.003987	0.001431	62.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0011	0.005	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.005	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0011	0.005	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.003	0.005	No	16	0.004125	0.0009815	50	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.005	No	16	0.004781	0.000875	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.005	No	16	0.004775	0.0009	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004682	0.003727	0.005	No	16	0.004662	0.0006908	31.25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.005	No	16	0.004644	0.0009736	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004934	0.003919	0.005	No	15	0.004427	0.0007488	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0027	0.005	No	16	0.004356	0.001249	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.005	No	16	0.0045	0.001151	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.005	No	16	0.004162	0.0008884	37.5	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-7	0.005447	0.0041	0.005	No	15	0.004773	0.0009939	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.002	0.005	No	16	0.004031	0.001497	68.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	16	0.0001956	0.0000175	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	16	0.0001933	0.00002675	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	16	0.0001818	0.00003952	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00011	0.002	No	16	0.0001504	0.00004629	37.5	None	No	0.01	NP (normality)
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	16	0.0001922	0.000031	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00011	0.002	No	16	0.0001887	0.00003074	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.0001862	0.00009871	0.002	No	16	0.0001754	0.00004905	31.25	Kaplan-Meier	x^2	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.000082	0.002	No	16	0.0001847	0.00004187	87.5	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	16	0.0001937	0.00002525	93.75	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	16	0.0001857	0.00004896	75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	16	0.0001944	0.0000225	93.75	None	No	0.01	NP (NDs)

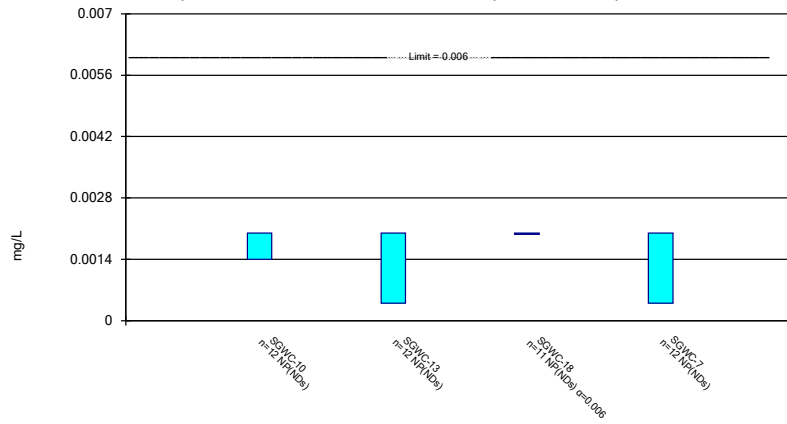
# State Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 6/16/2020, 2:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	16	0.0001922	0.000031	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	16	0.0001937	0.000025	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.015	No	15	0.01315	0.004873	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.015	No	15	0.01325	0.004626	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.015	No	15	0.01311	0.004981	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.015	0.0013	0.015	No	15	0.005502	0.005978	26.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.015	No	15	0.01405	0.003666	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00075	0.015	No	15	0.007569	0.007203	46.67	None	No	0.01	NP (normality)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No	16	0.004716	0.001135	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No	16	0.004707	0.001172	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No	16	0.004434	0.001549	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No	16	0.004469	0.001452	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.003479	0.0008276	0.05	No	16	0.003881	0.002926	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	SGWC-16	0.005	0.0012	0.05	No	16	0.003596	0.001896	62.5	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No	16	0.004135	0.001861	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.01429	0.004705	0.05	No	16	0.01029	0.008488	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00096	0.05	No	16	0.004193	0.001737	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.0053	0.00066	0.05	No	16	0.003647	0.001995	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00033	0.05	No	16	0.004112	0.001908	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No	16	0.004139	0.001851	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No	16	0.004709	0.001165	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No	16	0.0009281	0.0002295	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No	16	0.0009475	0.00021	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No	16	0.0009588	0.000165	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00018	0.002	No	16	0.000955	0.0002082	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.000095	0.002	No	16	0.0004739	0.0004315	37.5	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-18	0.00029	0.00012	0.002	No	16	0.0002503	0.0002405	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00021	0.00014	0.002	No	16	0.0002269	0.000213	6.25	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No	16	0.0009231	0.0002135	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00022	0.002	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No	16	0.0008888	0.0002682	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.00027	0.002	No	16	0.0009544	0.0001825	93.75	None	No	0.01	NP (NDs)

### Non-Parametric Confidence Interval

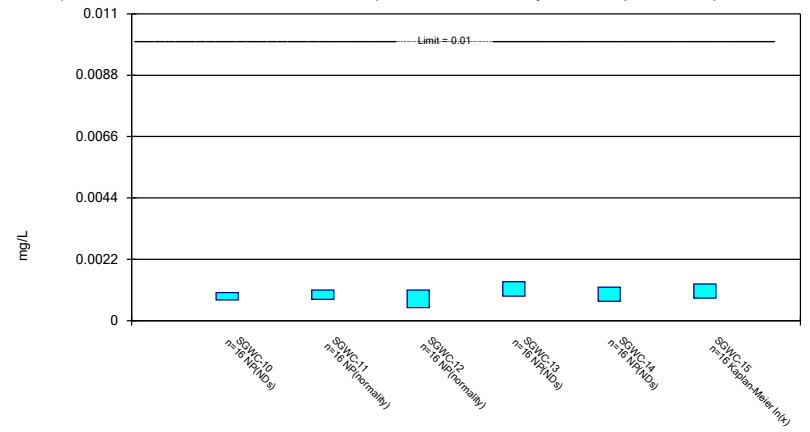
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 6/16/2020 2:35 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

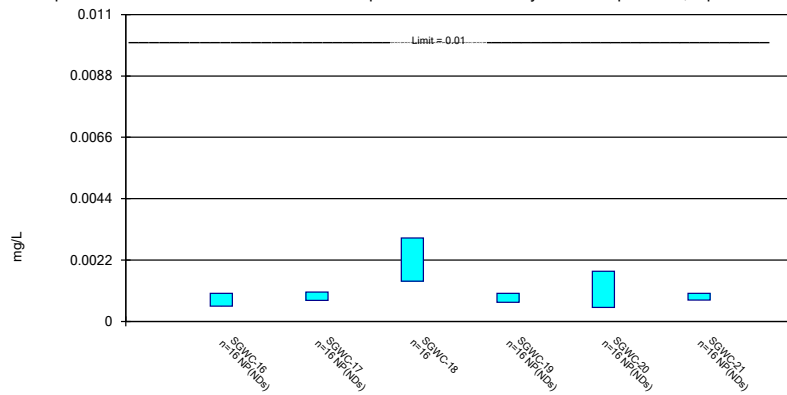
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/16/2020 2:35 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

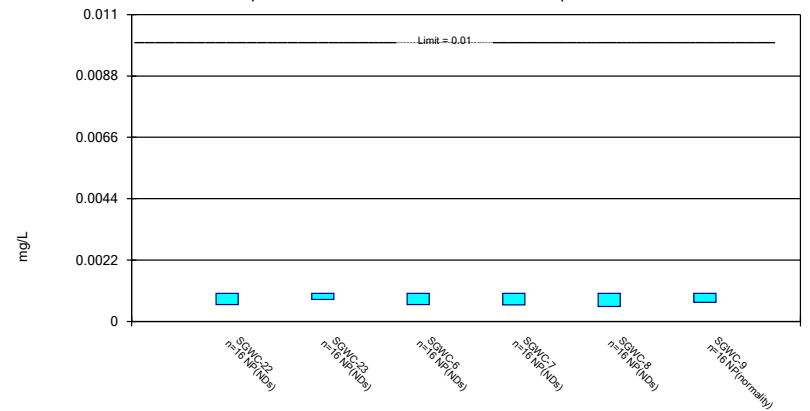
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/16/2020 2:35 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

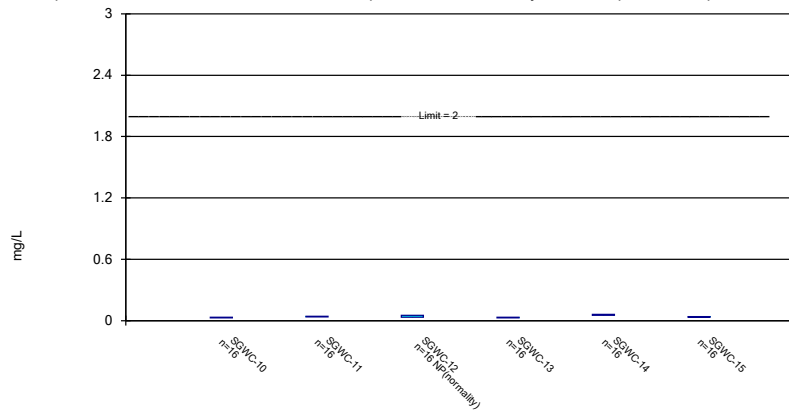
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

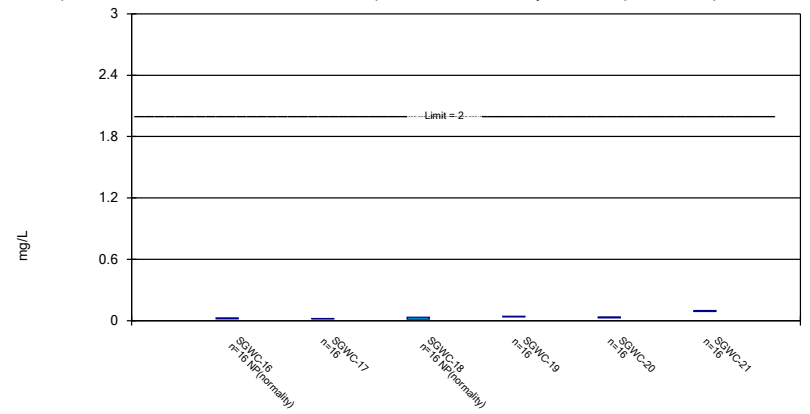
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

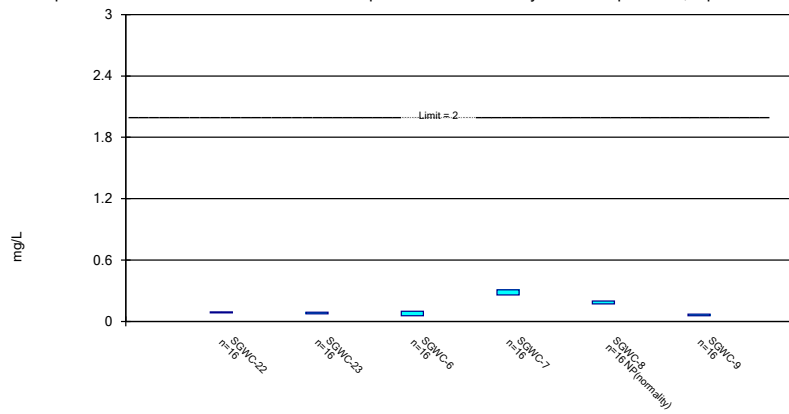
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

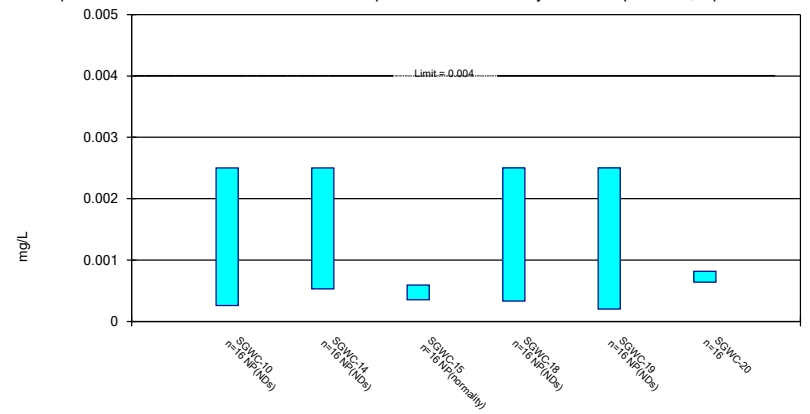
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



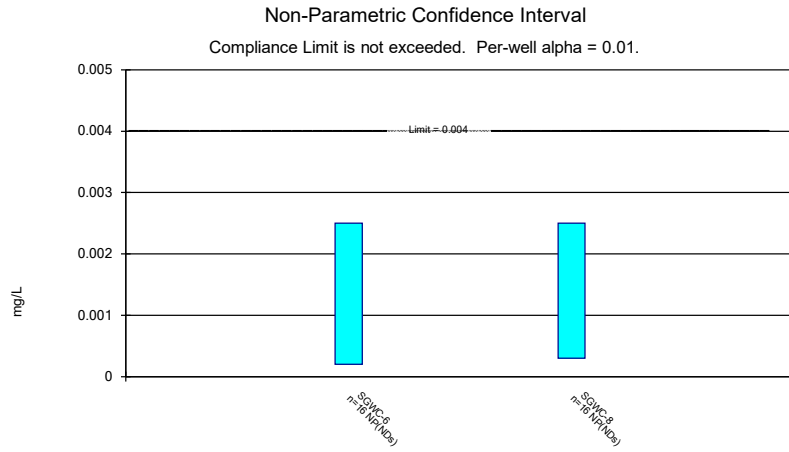
Constituent: Barium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

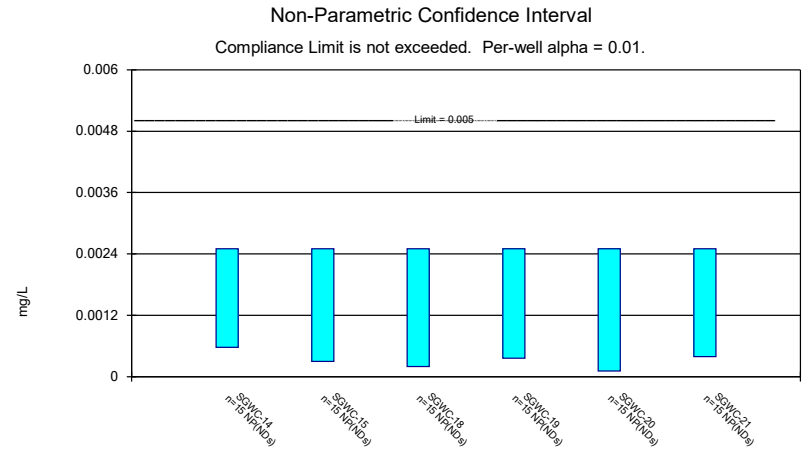
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



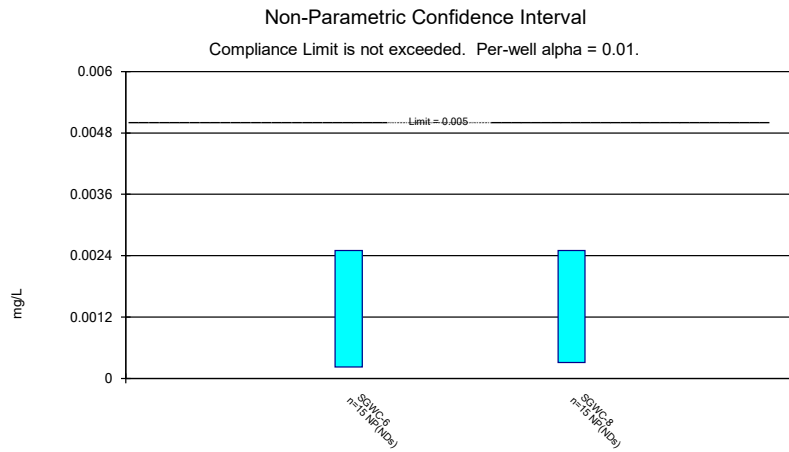
Constituent: Beryllium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP



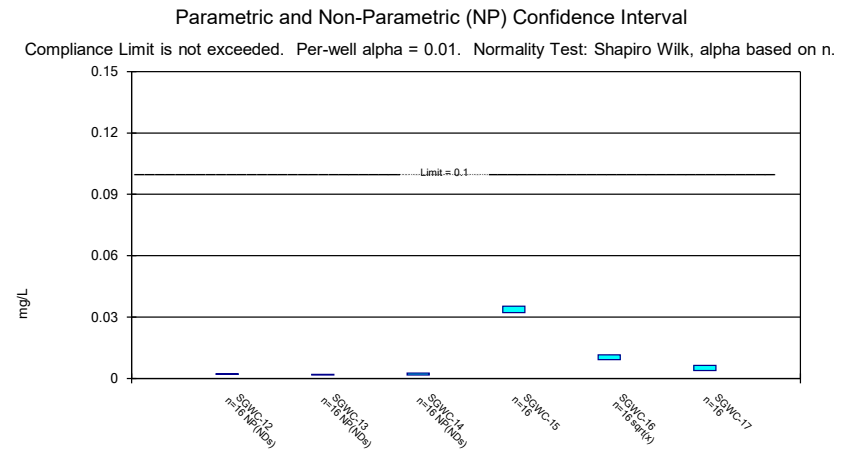
Constituent: Beryllium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP



Constituent: Cadmium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP



Constituent: Cadmium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

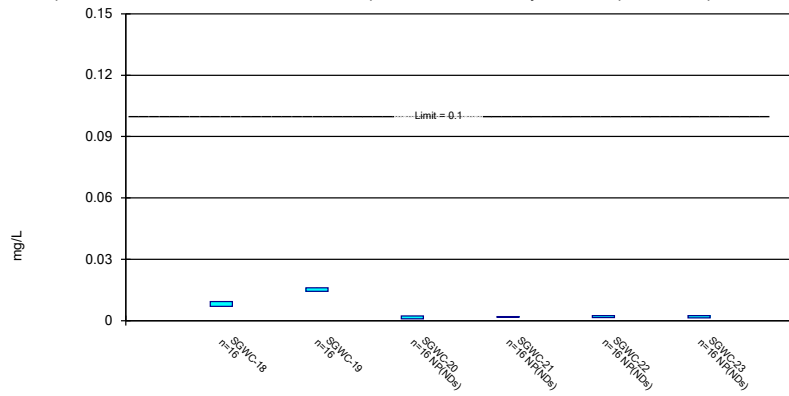


Constituent: Chromium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP



### Parametric and Non-Parametric (NP) Confidence Interval

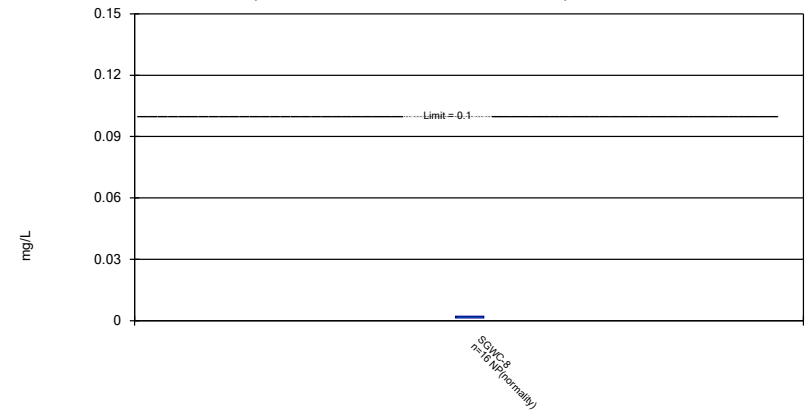
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

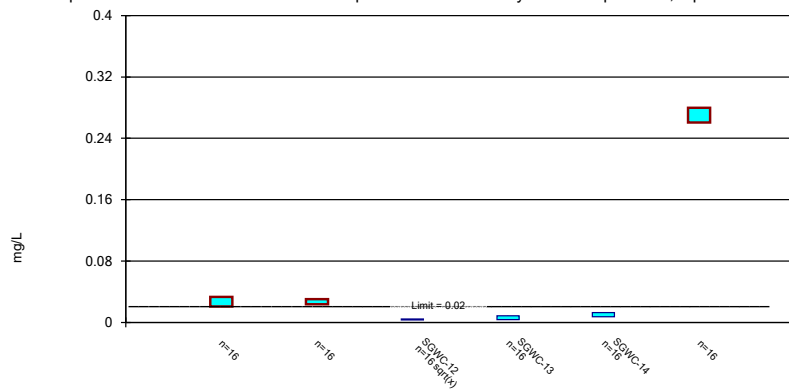
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric Confidence Interval

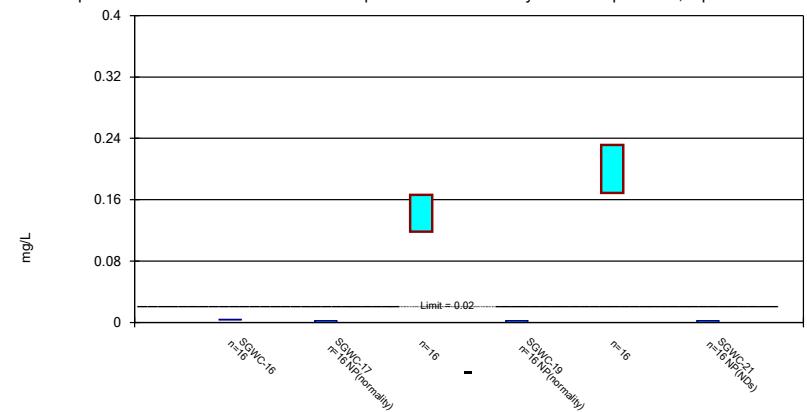
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

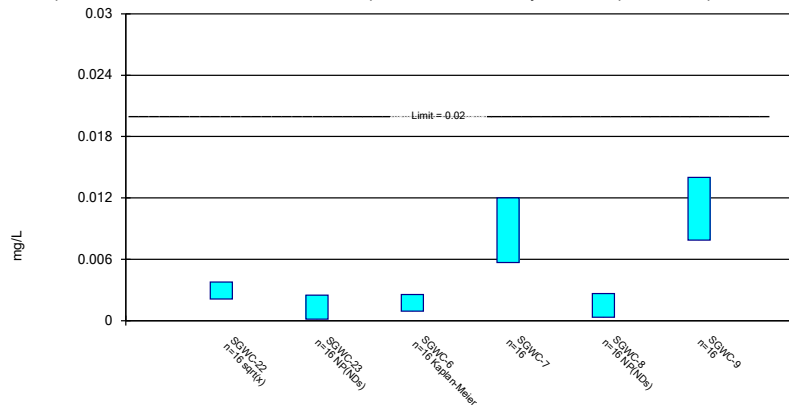
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

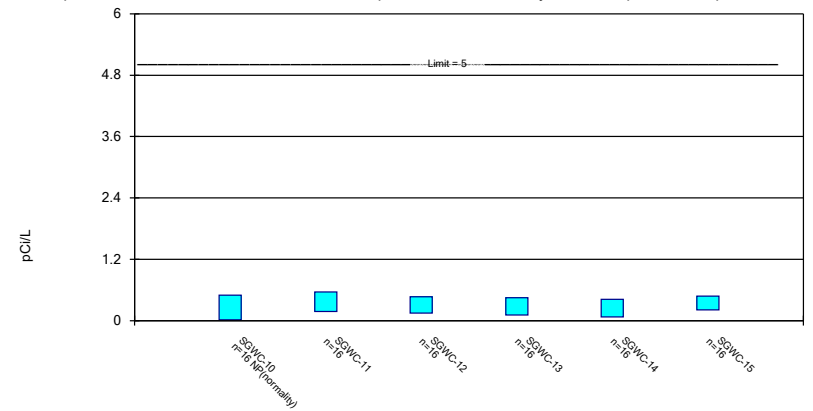
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

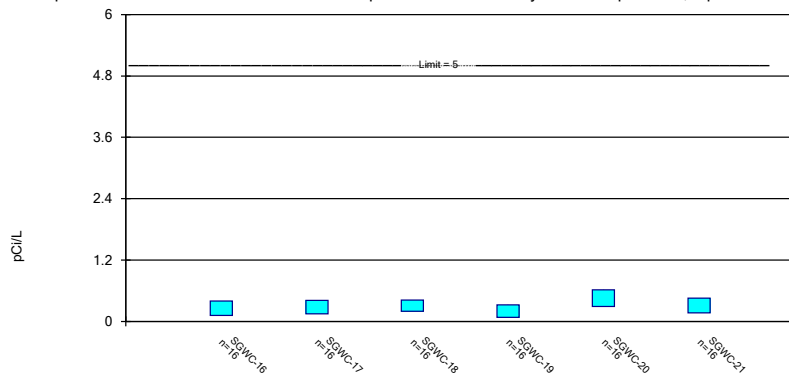
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

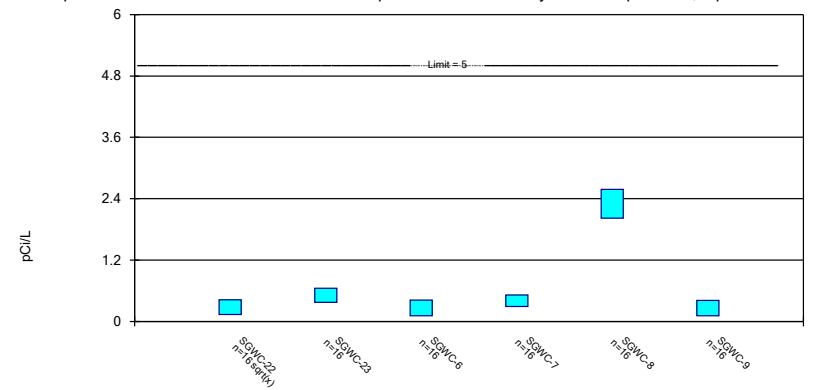
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

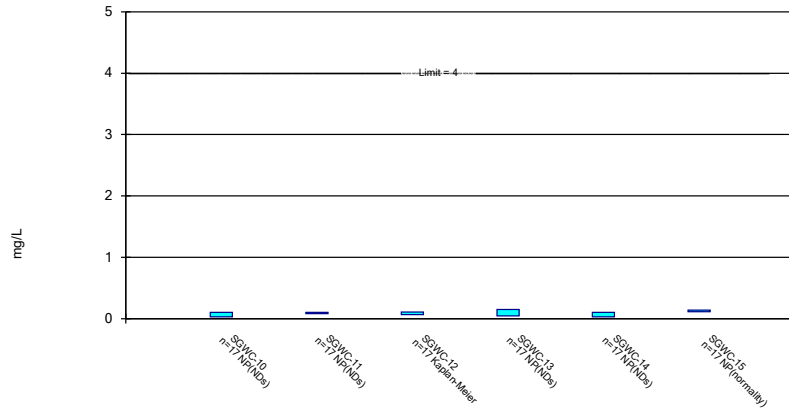
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

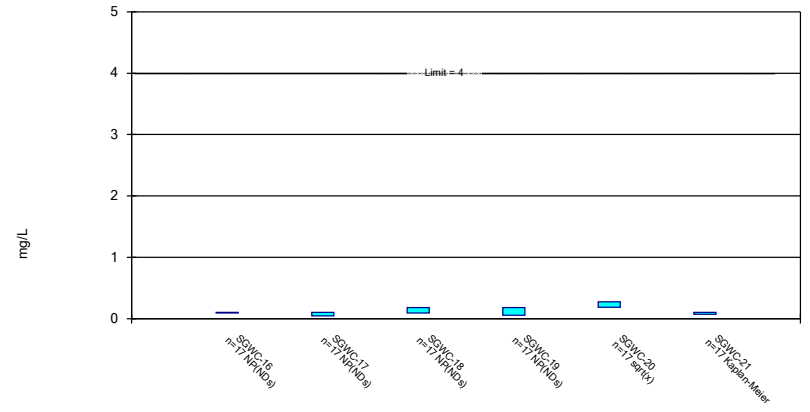
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

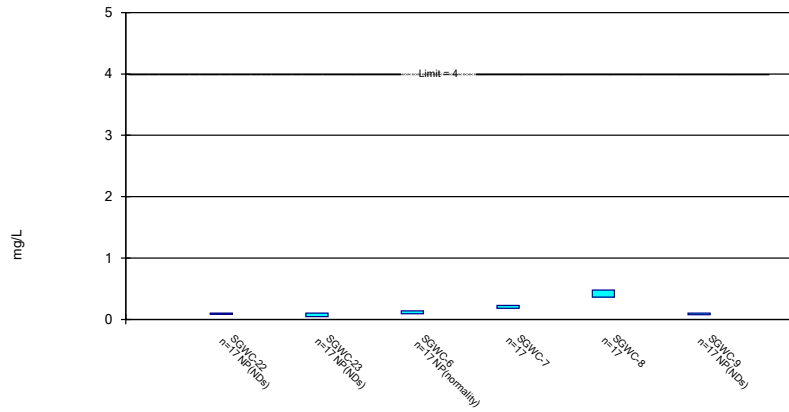
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

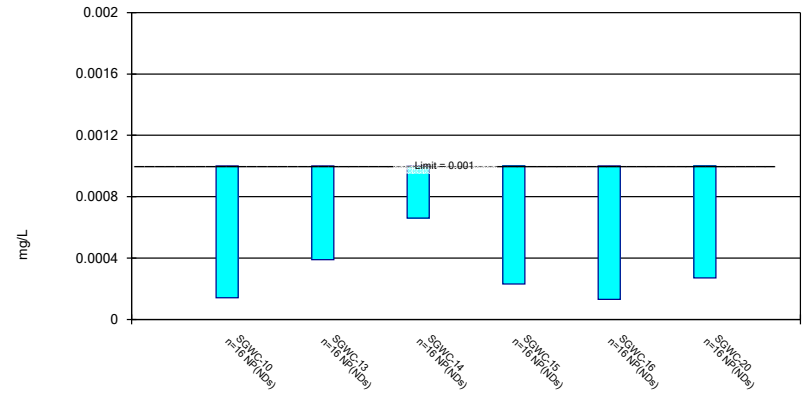
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

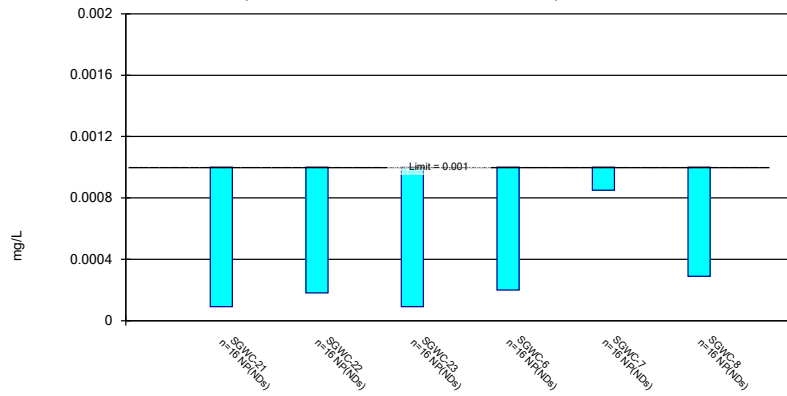
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

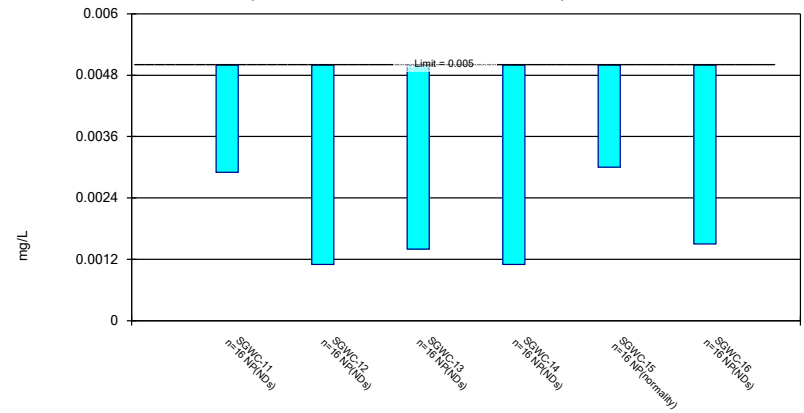
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

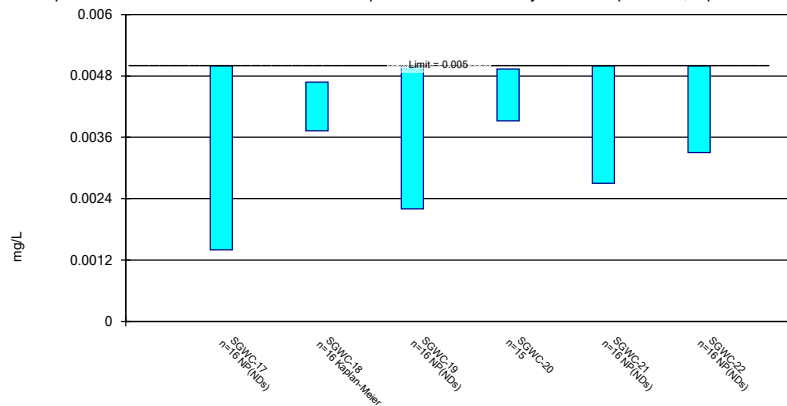
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

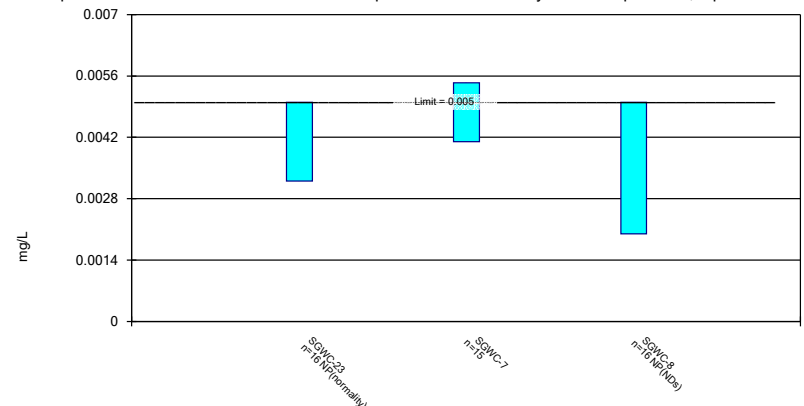
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

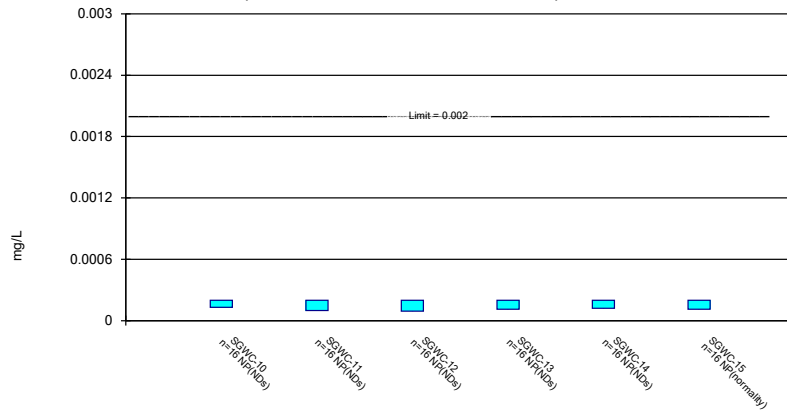
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

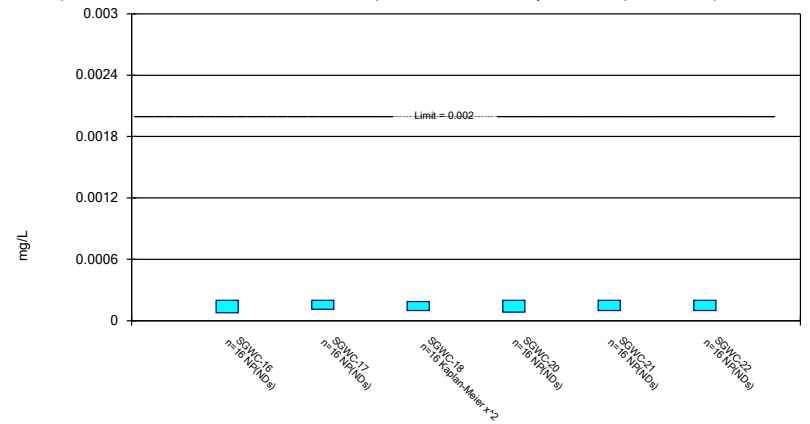
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

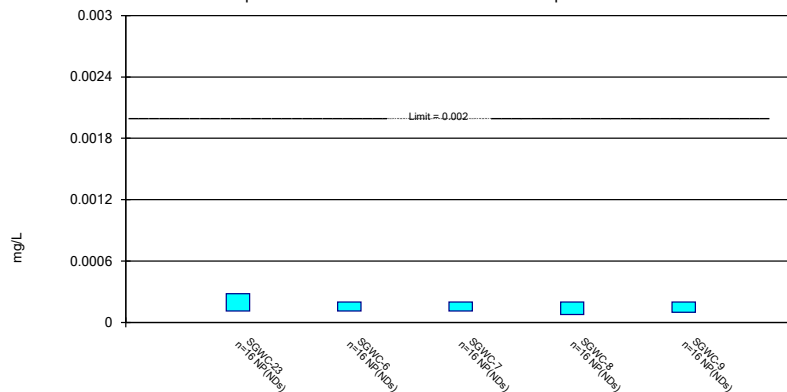
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

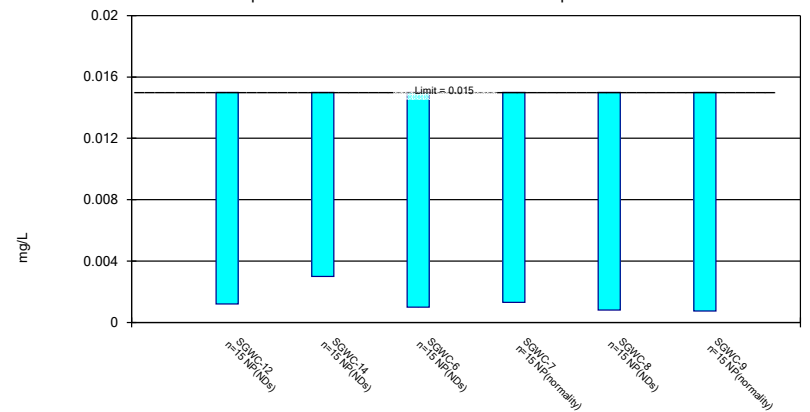
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

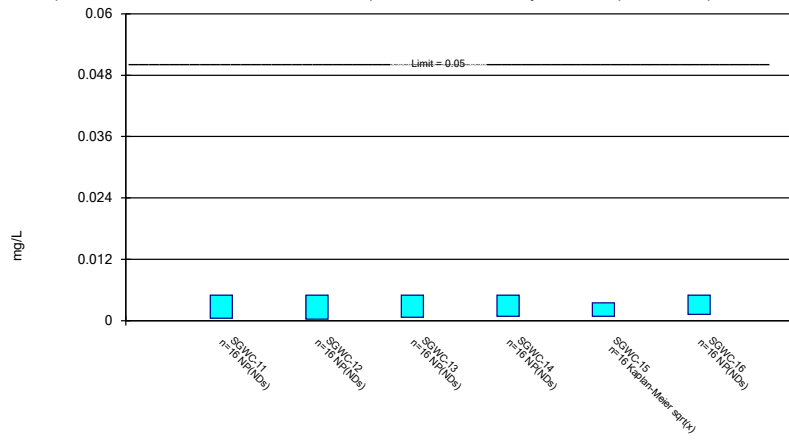
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

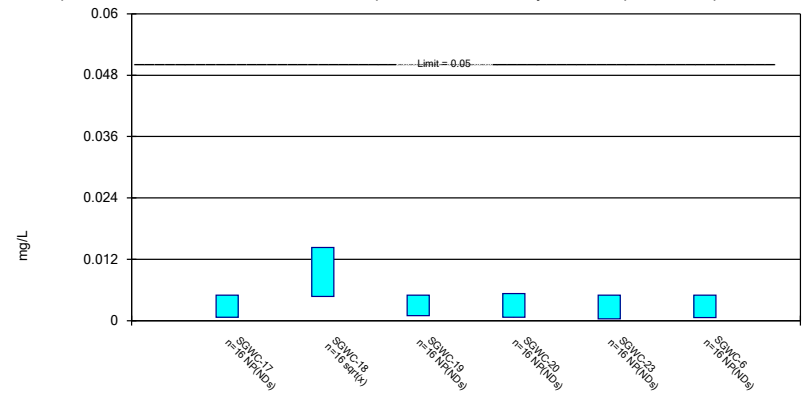
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

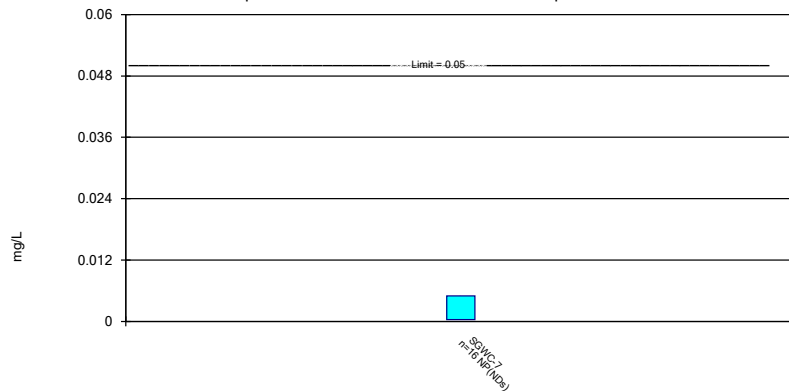
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

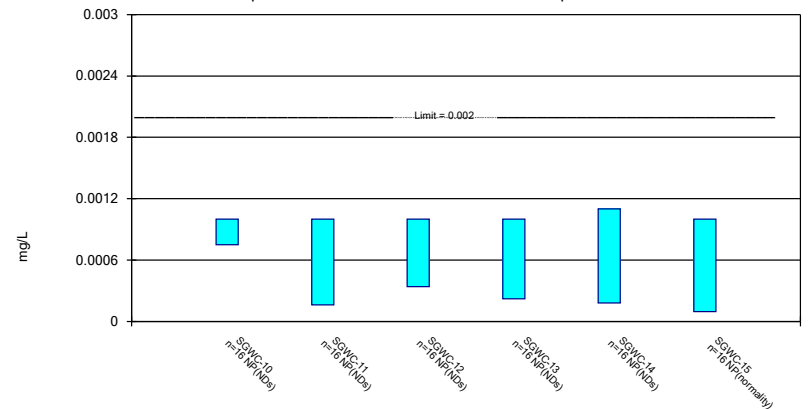
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

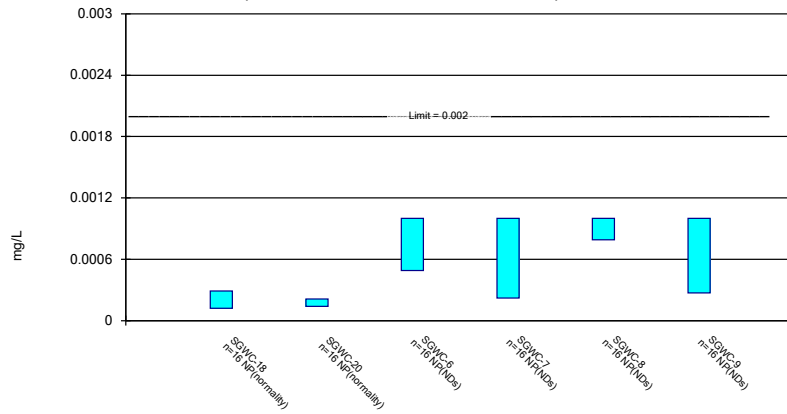
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/16/2020 2:36 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium    Analysis Run 6/16/2020 2:36 PM    View: Appendix IV  
Plant Scherer    Client: Southern Company    Data: Scherer AP

**APPENDIX D**

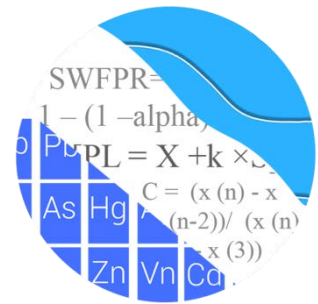
**STATISTICAL ANALYSES  
SEPTEMBER 2020**



# GROUNDWATER STATS CONSULTING

January 27, 2021

Southern Company Services  
Attn: Mr. Joju Abraham  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308-3374



Re: Plant Scherer Ash Pond (AP)  
2<sup>nd</sup> Semi-Annual Statistical Analysis – September 2020 Sampling Event

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the Groundwater Monitoring and Corrective Action 2<sup>nd</sup> Semi-Annual September 2020 sample event for Georgia Power Company's Plant Scherer AP. 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 the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** SGWA-1, SGWA-2, SGWA-3, SGWA-4, SGWA-5, SGWA-24, and SGWA-25
- **Downgradient wells:** SGWC-6, SGWC-7, SGWC-8, SGWC-9, SGWC-10, and SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, and SGWC-23

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Groundwater Statistician of Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The CCR program monitors 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. Summaries of well/constituent pairs with 100% nondetects follow this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in February 2020, antimony was not detected, and therefore, was not required to be sampled during the September 2020 event. Antimony was included on time series and box plots, but was not included in statistical analyses.

For all constituents, a substitution of the most recent reporting limit is used for nondetect data. For calculating prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case. In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

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).

Based on the previous screening, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. 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.

### **Summary of Statistical Methods:**

Based on the evaluation for state and federal regulatory requirements, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Ground Water Protection Standards (GWPS) for each Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) 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 following approaches are used for handling nondetects (USEPA, 2009):

- 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. While this was not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting 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.

### **Statistical Analysis of Appendix III Parameters – September 2020**

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a

disconnected symbol on the graphs. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2020 (Figure D). 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 identified for Appendix III parameters. A summary table of the interwell prediction limits follows this letter and includes a list of exceedances.

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. A summary of the trend test results including a list of statistically significant trends follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

- Boron: SGWC-11 and SGWC-18
- Calcium: SGWA-4 (upgradient), SGWC-17, SGWC-19, and SGWC-22
- Chloride: SGWC-9, SGWC-13, SGWC-18, and SGWC-21
- Sulfate: SGWC-12, SGWC-16, SGWC-17, SGWC-21, and SGWC-22
- TDS: SGWC-17

Decreasing:

- Calcium: SGWA-1 (upgradient) and SGWC-7
- Chloride: SGWA-3 (upgradient) and SGWC-7
- Fluoride: SGWC-7 and SGWC-20
- pH: SGWA-25 (upgradient)
- Sulfate: SGWA-4 (upgradient), SGWC-20, and SGWC-23

## **Statistical Analysis of Appendix IV Parameters – September 2020**

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% nondetects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2020 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. 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 Georgia EPD Rule requirements and the Federal CCR requirements, Federal and State GWPS were established for statistical comparison of Appendix IV constituents for the September 2020 sample event (Figure G).

To complete the statistical comparison of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well. The Sanitas software was used to calculate both the tolerance limits and the confidence intervals. For Federal requirements, confidence intervals were compared to the GWPS prepared according to the CCR Rule (Figure H). For the State requirements, confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a) (Figure I). 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. Summaries of both the Federal and State confidence intervals follow this letter and exceedances were identified for the following well/constituent pairs:

Federal and State:

- Cobalt: SGWC-10, SGWC-11, SGWC-15, SGWC-18, and SGWC-20

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Scherer AP. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins  
Project Manager



Kristina L. Rayner  
Groundwater Statistician

# 100% Non-Detects

Analysis Run 1/6/2021 12:03 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

**Antimony (mg/L)**

SGWC-11, SGWC-12, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23, SGWC-6, SGWC-8, SGWC-9

**Beryllium (mg/L)**

SGWC-11, SGWC-12, SGWC-13, SGWC-16, SGWC-17, SGWC-21, SGWC-23, SGWC-7, SGWC-9

**Cadmium (mg/L)**

SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-16, SGWC-17, SGWC-22, SGWC-23, SGWC-7, SGWC-9

**Chromium (mg/L)**

SGWC-10, SGWC-11, SGWC-6, SGWC-7, SGWC-9

**Lead (mg/L)**

SGWC-11, SGWC-12, SGWC-17, SGWC-18, SGWC-19, SGWC-9

**Lithium (mg/L)**

SGWC-10, SGWC-6, SGWC-9

**Mercury (mg/L)**

SGWC-19

**Molybdenum (mg/L)**

SGWC-10, SGWC-11, SGWC-13, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23

**Selenium (mg/L)**

SGWC-10, SGWC-21, SGWC-22, SGWC-8, SGWC-9

**Thallium (mg/L)**

SGWC-16, SGWC-17, SGWC-19, SGWC-21



# Appendix III - Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Date: Scherer AP Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-11	0.13	n/a	9/14/2020	0.43	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-13	0.13	n/a	9/14/2020	0.49	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-14	0.13	n/a	9/15/2020	1.5	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-15	0.13	n/a	9/15/2020	1.4	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-16	0.13	n/a	9/15/2020	0.57	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-17	0.13	n/a	9/15/2020	0.38	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-18	0.13	n/a	9/15/2020	6.2	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-19	0.13	n/a	9/15/2020	1.9	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-20	0.13	n/a	9/15/2020	1.8	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-21	0.13	n/a	9/15/2020	1.2	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-22	0.13	n/a	9/15/2020	0.5	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-23	0.13	n/a	9/15/2020	0.38	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-9	0.13	n/a	9/14/2020	1.7	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	SGWC-12	19	n/a	9/14/2020	22	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-14	19	n/a	9/15/2020	40	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-17	19	n/a	9/15/2020	54	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-18	19	n/a	9/15/2020	74	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-19	19	n/a	9/15/2020	47	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-21	19	n/a	9/15/2020	38	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-22	19	n/a	9/15/2020	28	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-23	19	n/a	9/15/2020	21	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-7	19	n/a	9/14/2020	20	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-8	19	n/a	9/14/2020	49	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-9	19	n/a	9/14/2020	45	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	SGWC-10	3	n/a	9/14/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3	n/a	9/14/2020	8.9	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3	n/a	9/14/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3	n/a	9/14/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3	n/a	9/15/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3	n/a	9/15/2020	8.6	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3	n/a	9/15/2020	8.4	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3	n/a	9/15/2020	7.7	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3	n/a	9/15/2020	12	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3	n/a	9/15/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-7	3	n/a	9/14/2020	5.8	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-8	3	n/a	9/14/2020	14	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-9	3	n/a	9/14/2020	19	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Fluoride, total (mg/L)	SGWC-15	0.108	n/a	9/15/2020	0.15	Yes	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-20	0.108	n/a	9/15/2020	0.15	Yes	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-7	0.108	n/a	9/14/2020	0.11	Yes	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-8	0.108	n/a	9/14/2020	0.29	Yes	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-15	6.87	5.09	9/15/2020	4.87	Yes	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-18	6.87	5.09	9/15/2020	4.94	Yes	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-20	6.87	5.09	9/15/2020	4.3	Yes	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-12	3.75	n/a	9/14/2020	41	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-13	3.75	n/a	9/14/2020	89	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-14	3.75	n/a	9/15/2020	180	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-15	3.75	n/a	9/15/2020	190	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-16	3.75	n/a	9/15/2020	36	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-17	3.75	n/a	9/15/2020	190	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-18	3.75	n/a	9/15/2020	860	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-19	3.75	n/a	9/15/2020	250	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2

# Appendix III - Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate, total (mg/L)	SGWC-20	3.75	n/a	9/15/2020	200	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-21	3.75	n/a	9/15/2020	130	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-22	3.75	n/a	9/15/2020	110	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-23	3.75	n/a	9/15/2020	72	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-7	3.75	n/a	9/14/2020	17	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-8	3.75	n/a	9/14/2020	81	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-9	3.75	n/a	9/14/2020	220	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	9/15/2020	360	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	9/15/2020	340	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	9/15/2020	440	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	9/15/2020	1500	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	9/15/2020	450	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	9/15/2020	350	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	9/15/2020	390	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	9/15/2020	250	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	9/15/2020	210	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	9/14/2020	360	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	9/14/2020	470	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2

# Appendix III - Interwell Prediction Limits - All Results

Plant Scherer   Client: Southern Company   Data: Scherer AP   Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-10	0.13	n/a	9/14/2020	0.082	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-11</b>	<b>0.13</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>0.43</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron, total (mg/L)	SGWC-12	0.13	n/a	9/14/2020	0.08ND	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-13</b>	<b>0.13</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>0.49</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-14</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.5</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-15</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.4</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-16</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.57</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-17</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.38</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-18</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>6.2</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-19</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.9</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-20</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.8</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-21</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.2</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-22</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.5</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-23</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.38</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron, total (mg/L)	SGWC-6	0.13	n/a	9/14/2020	0.08ND	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-7	0.13	n/a	9/14/2020	0.08ND	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-8	0.13	n/a	9/14/2020	0.1	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-9</b>	<b>0.13</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>1.7</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
Calcium, total (mg/L)	SGWC-10	19	n/a	9/14/2020	0.75	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-11	19	n/a	9/14/2020	1.8	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-12</b>	<b>19</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>22</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-13	19	n/a	9/14/2020	19	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-14</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>40</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-15	19	n/a	9/15/2020	17	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-16	19	n/a	9/15/2020	1.1	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-17</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>54</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-18</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>74</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-19</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>47</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-20	19	n/a	9/15/2020	14	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-21</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>38</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-22</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>28</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-23</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>21</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-6	19	n/a	9/14/2020	10	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-7</b>	<b>19</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>20</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-8</b>	<b>19</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>49</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-9</b>	<b>19</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>45</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	SGWC-10	3	n/a	9/14/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3	n/a	9/14/2020	8.9	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3	n/a	9/14/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3	n/a	9/14/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3	n/a	9/15/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3	n/a	9/15/2020	8.6	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3	n/a	9/15/2020	8.4	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3	n/a	9/15/2020	7.7	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3	n/a	9/15/2020	12	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3	n/a	9/15/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-6	3	n/a	9/14/2020	2.8	No	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>SGWC-7</b>	<b>3</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>5.8</b>	<b>Yes</b>	<b>105</b>	<b>1.361</b>	<b>0.1767</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.000418</b>	<b>Param Inter 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>SGWC-8</b>	<b>3</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>14</b>	<b>Yes</b>	<b>105</b>	<b>1.361</b>	<b>0.1767</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.000418</b>	<b>Param Inter 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>SGWC-9</b>	<b>3</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>19</b>	<b>Yes</b>	<b>105</b>	<b>1.361</b>	<b>0.1767</b>	<b>0</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.000418</b>	<b>Param Inter 1 of 2</b>
Fluoride, total (mg/L)	SGWC-10	0.108	n/a	9/14/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-11	0.108	n/a	9/14/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2

# Appendix III - Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-12	0.108	n/a	9/14/2020	0.042J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-13	0.108	n/a	9/14/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-14	0.108	n/a	9/15/2020	0.04J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-15</b>	<b>0.108</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.15</b>	<b>Yes</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>	<b>68.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001235</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-16	0.108	n/a	9/15/2020	0.037J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-17	0.108	n/a	9/15/2020	0.052J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-18	0.108	n/a	9/15/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-19	0.108	n/a	9/15/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-20</b>	<b>0.108</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.15</b>	<b>Yes</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>	<b>68.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001235</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-21	0.108	n/a	9/15/2020	0.061J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-22	0.108	n/a	9/15/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-23	0.108	n/a	9/15/2020	0.052J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-6	0.108	n/a	9/14/2020	0.076J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-7</b>	<b>0.108</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>0.11</b>	<b>Yes</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>	<b>68.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001235</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>SGWC-8</b>	<b>0.108</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>0.29</b>	<b>Yes</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>	<b>68.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001235</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-9	0.108	n/a	9/14/2020	0.037J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-10	6.87	5.09	9/14/2020	5.51	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-11	6.87	5.09	9/14/2020	5.14	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-12	6.87	5.09	9/14/2020	6.11	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-13	6.87	5.09	9/14/2020	6	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-14	6.87	5.09	9/15/2020	6.01	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-15</b>	<b>6.87</b>	<b>5.09</b>	<b>9/15/2020</b>	<b>4.87</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002736</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-16	6.87	5.09	9/15/2020	5.56	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-17	6.87	5.09	9/15/2020	6.42	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-18</b>	<b>6.87</b>	<b>5.09</b>	<b>9/15/2020</b>	<b>4.94</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002736</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-19	6.87	5.09	9/15/2020	5.51	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-20</b>	<b>6.87</b>	<b>5.09</b>	<b>9/15/2020</b>	<b>4.3</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002736</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-21	6.87	5.09	9/15/2020	6.1	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-22	6.87	5.09	9/15/2020	5.65	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-23	6.87	5.09	9/15/2020	5.89	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-6	6.87	5.09	9/14/2020	6.29	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-7	6.87	5.09	9/14/2020	6.31	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-8	6.87	5.09	9/14/2020	6.56	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-9	6.87	5.09	9/14/2020	6.33	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-10	3.75	n/a	9/14/2020	2.2	No	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-11	3.75	n/a	9/14/2020	0.59J	No	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Sulfate, total (mg/L)</b>	<b>SGWC-12</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>41</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-13</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>89</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-14</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>180</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-15</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>190</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-16</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>36</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-17</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>190</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-18</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>860</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-19</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>250</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-20</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>200</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-21</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>130</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-22</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>110</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-23</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>72</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate, total (mg/L)	SGWC-6	3.75	n/a	9/14/2020	0.46J	No	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Sulfate, total (mg/L)</b>	<b>SGWC-7</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>17</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-8</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>81</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-9</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>220</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	SGWC-10	200	n/a	9/14/2020	45	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-11	200	n/a	9/14/2020	39	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-12	200	n/a	9/14/2020	190	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-13	200	n/a	9/14/2020	190	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2

# Appendix III - Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	9/15/2020	360	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	9/15/2020	340	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-16	200	n/a	9/15/2020	90	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	9/15/2020	440	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	9/15/2020	1500	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	9/15/2020	450	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	9/15/2020	350	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	9/15/2020	390	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	9/15/2020	250	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	9/15/2020	210	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-6	200	n/a	9/14/2020	99	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-7	200	n/a	9/14/2020	200	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	9/14/2020	360	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	9/14/2020	470	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	SGWC-11	0.04725	92	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-18	0.5506	67	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-1 (bg)	-0.1981	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-4 (bg)	0.9029	56	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-17	5.008	88	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-19	2.58	68	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-22	1.614	72	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-7	-2.447	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-3 (bg)	-0.3625	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-13	0.9311	69	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-18	2.168	76	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-21	0.8644	71	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-7	-0.7725	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-9	1.573	81	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-20	-0.03552	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-7	-0.01865	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-25 (bg)	-0.03068	-65	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-4 (bg)	-0.2298	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-12	5.748	70	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-16	6.106	99	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-17	16.67	88	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-20	-12.65	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-21	7.065	65	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-22	5.799	69	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-23	-12.92	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	28.14	80	53	Yes	15	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	SGWA-1 (bg)	0	10	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-2 (bg)	0	10	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-24 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-25 (bg)	0	12	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-3 (bg)	0	3	53	No	15	86.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-4 (bg)	0	12	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-5 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>SGWC-11</b>	<b>0.04725</b>	<b>92</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	SGWC-13	-0.01742	-51	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-14	0.03244	29	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-15	-0.02771	-18	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-16	0.003216	21	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-17	0.03283	39	53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>SGWC-18</b>	<b>0.5506</b>	<b>67</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	SGWC-19	0	5	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-20	-0.02485	-13	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-21	-0.05585	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-22	0.01973	23	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-23	-0.03484	-39	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-9	0	20	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWA-1 (bg)</b>	<b>-0.1981</b>	<b>-56</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWA-2 (bg)	0.3919	52	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-24 (bg)	0.5098	50	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-25 (bg)	-0.4761	-46	-53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-3 (bg)	-0.07652	-11	-53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWA-4 (bg)</b>	<b>0.9029</b>	<b>56</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWA-5 (bg)	0	18	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-12	0	2	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-14	0.6828	37	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-17</b>	<b>5.008</b>	<b>88</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-18	8.732	28	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-19</b>	<b>2.58</b>	<b>68</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-21	0.7816	31	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-22</b>	<b>1.614</b>	<b>72</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-23	-1.864	-51	-53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-7</b>	<b>-2.447</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-8	0.8221	28	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-9	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-1 (bg)	-0.08508	-35	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-2 (bg)	-0.06262	-38	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-24 (bg)	0	-11	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-25 (bg)	0	-3	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWA-3 (bg)</b>	<b>-0.3625</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWA-4 (bg)	-0.04953	-27	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-5 (bg)	-0.05356	-37	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-10	-0.1478	-17	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-11	-0.05076	-9	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-12	0.1717	41	53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-13</b>	<b>0.9311</b>	<b>69</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-14	0	-19	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-15	0	13	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-16	0.1214	22	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-17	-0.09805	-32	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-18</b>	<b>2.168</b>	<b>76</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-19	-0.1087	-34	-53	No	15	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 12/9/2020, 3:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	SGWC-20	0	13	53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-21</b>	<b>0.8644</b>	<b>71</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-22	0	9	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-23	0.03427	14	53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-7</b>	<b>-0.7725</b>	<b>-72</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-8	-0.6114	-43	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-9</b>	<b>1.573</b>	<b>81</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWA-1 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-2 (bg)	-0.0002426	-46	-68	No	18	55.56	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-24 (bg)	0	-42	-68	No	18	55.56	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-25 (bg)	0	-43	-68	No	18	55.56	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-3 (bg)	0	6	68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-4 (bg)	-0.004263	-54	-68	No	18	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-5 (bg)	0	3	68	No	18	88.89	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-15	0	13	68	No	18	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>SGWC-20</b>	<b>-0.03552</b>	<b>-86</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>SGWC-7</b>	<b>-0.01865</b>	<b>-85</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWC-8	-0.03824	-60	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-1 (bg)	-0.04682	-54	-63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-2 (bg)	0	2	63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-24 (bg)	0.009109	25	63	No	17	0	n/a	n/a	0.01	NP
<b>pH (S.U.)</b>	<b>SGWA-25 (bg)</b>	<b>-0.03068</b>	<b>-65</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (S.U.)	SGWA-3 (bg)	0.03166	41	63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-4 (bg)	-0.01103	-18	-63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-5 (bg)	0.03099	34	63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-15	-0.01549	-23	-58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-18	0.02034	24	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-20	0	-2	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-1 (bg)	0	-3	-53	No	15	26.67	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-2 (bg)	0	6	53	No	15	66.67	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-24 (bg)	0	1	53	No	15	86.67	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-25 (bg)	0	12	53	No	15	80	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-3 (bg)	-0.1666	-34	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWA-4 (bg)</b>	<b>-0.2298</b>	<b>-59</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWA-5 (bg)	0	15	53	No	15	80	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-12</b>	<b>5.748</b>	<b>70</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-13	0.8314	12	53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-14	-1.931	-25	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-15	0	-5	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-16</b>	<b>6.106</b>	<b>99</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-17</b>	<b>16.67</b>	<b>88</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-18	125.9	36	53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-19	9.117	43	53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-20</b>	<b>-12.65</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-21</b>	<b>7.065</b>	<b>65</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-22</b>	<b>5.799</b>	<b>69</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-23</b>	<b>-12.92</b>	<b>-75</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-7	-1.544	-49	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-8	2.607	45	53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-9	0	7	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-1 (bg)	-8.022	-39	-53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-2 (bg)	0	-9	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-24 (bg)	0	-11	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-25 (bg)	-8.983	-44	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-3 (bg)	-2.624	-6	-53	No	15	0	n/a	n/a	0.01	NP



# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 3

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 12/9/2020, 3:51 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>
Total Dissolved Solids [TDS] (mg/L)	SGWA-4 (bg)	9.111	35	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-5 (bg)	-6.134	-35	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	2.904	15	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	7.636	36	53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>SGWC-17</b>	<b>28.14</b>	<b>80</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	204	37	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	10.16	18	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	-5.536	-14	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	0	2	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	10.18	48	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	-17.94	-40	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	-6.213	-24	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	4.309	6	53	No	15	0	n/a	n/a	0.01	NP

# Upper Tolerance Limit Summary Table

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:00 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0021	n/a	n/a	91	n/a	n/a	93.41	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.0015	n/a	n/a	119	n/a	n/a	83.19	n/a	n/a	0.002234	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	119	n/a	n/a	0	n/a	n/a	0.002234	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	119	n/a	n/a	94.96	n/a	n/a	0.002234	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	112	n/a	n/a	98.21	n/a	n/a	0.003199	NP Inter(NDs)
Chromium (mg/L)	0.021	n/a	n/a	126	n/a	n/a	33.33	n/a	n/a	0.00156	NP Inter(normality)
Cobalt (mg/L)	0.02	n/a	n/a	119	n/a	n/a	63.03	n/a	n/a	0.002234	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.2	n/a	n/a	119	n/a	n/a	0	n/a	n/a	0.002234	NP Inter(normality)
Fluoride, total (mg/L)	0.108	n/a	n/a	126	n/a	n/a	68.25	n/a	n/a	0.00156	NP Inter(NDs)
Lead (mg/L)	0.001	n/a	n/a	119	n/a	n/a	94.12	n/a	n/a	0.002234	NP Inter(NDs)
Lithium (mg/L)	0.005	n/a	n/a	119	n/a	n/a	91.6	n/a	n/a	0.002234	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	n/a	121	n/a	n/a	89.26	n/a	n/a	0.002016	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	112	n/a	n/a	89.29	n/a	n/a	0.003199	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	119	n/a	n/a	89.08	n/a	n/a	0.002234	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	119	n/a	n/a	92.44	n/a	n/a	0.002234	NP Inter(NDs)

<b>SCHERER ASH POND GWPS</b>					
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>Federal GWPS</b>	<b>State GWPS</b>
Antimony, Total (mg/L)	0.006		0.0021	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.0015	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.021	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.02	0.02	0.02
Combined Radium, Total (pCi/L)	5		1.2	5	5
Fluoride, Total (mg/L)	4		0.11	4	4
Lead, Total (mg/L)		0.015	0.001	0.015	0.001
Lithium, Total (mg/L)		0.04	0.005	0.04	0.005
Mercury, Total (mg/L)	0.002		0.0005	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.1	0.015
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

*Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

*\*GWPS = Groundwater Protection Standard*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residuals*

# Federal Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:30 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	SGWC-10	0.03255	0.02078	0.02	Yes 17	0.02666	0.009399	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-11	0.02972	0.0231	0.02	Yes 17	0.02641	0.005281	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-15	0.2784	0.2595	0.02	Yes 17	0.2689	0.01503	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-18	0.1638	0.1182	0.02	Yes 17	0.141	0.03639	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-20	0.227	0.1611	0.02	Yes 17	0.1941	0.05263	0	None	No	0.01	Param.

# Federal Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 1/6/2021, 12:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	17	0.0009312	0.0001591	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.0011	0.00076	0.01	No	17	0.001006	0.0001107	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-12	0.0011	0.0007	0.01	No	17	0.0008688	0.0002657	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	17	0.0009671	0.0001825	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	17	0.0009676	0.000199	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.001367	0.0008333	0.01	No	17	0.001216	0.0004967	23.53	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	17	0.0009465	0.0001511	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001045	0.00075	0.01	No	17	0.0009291	0.0001426	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.003149	0.001551	0.01	No	17	0.00235	0.001275	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	17	0.0009565	0.0001241	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.001	0.00051	0.01	No	17	0.0008994	0.0003394	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	17	0.0009859	0.00005821	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.00089	0.01	No	17	0.0008929	0.0002285	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	17	0.0009647	0.0001046	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	17	0.0009118	0.0001989	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.0006	0.01	No	17	0.0008965	0.0001798	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.00063	0.01	No	17	0.0008688	0.000223	64.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00074	0.01	No	17	0.0008794	0.0001931	52.94	None	No	0.01	NP (NDs)
Barium (mg/L)	SGWC-10	0.03276	0.02791	2	No	17	0.03034	0.003872	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.042	0.03709	2	No	17	0.03955	0.003923	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.04939	0.03782	2	No	17	0.04303	0.009405	0	None	x^2	0.01	Param.
Barium (mg/L)	SGWC-13	0.03421	0.02609	2	No	17	0.03015	0.006482	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.06077	0.05285	2	No	17	0.05681	0.006317	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.03962	0.03362	2	No	17	0.03662	0.004788	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.02475	0.01859	2	No	17	0.02199	0.005097	0	None	ln(x)	0.01	Param.
Barium (mg/L)	SGWC-17	0.0221	0.01846	2	No	17	0.02028	0.002908	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.02514	0.01558	2	No	17	0.0209	0.007937	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	SGWC-19	0.04215	0.03481	2	No	17	0.03848	0.005855	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03578	0.02648	2	No	17	0.03113	0.007424	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.1	0.09	2	No	17	0.09592	0.0105	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-22	0.09304	0.08262	2	No	17	0.08783	0.008309	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.093	0.065	2	No	17	0.07956	0.01209	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-6	0.1033	0.05764	2	No	17	0.08049	0.03646	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.3055	0.2578	2	No	17	0.2816	0.038	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.2	0.17	2	No	17	0.1839	0.02137	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-9	0.06912	0.05617	2	No	17	0.06264	0.01033	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	17	0.002368	0.0005433	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	17	0.002249	0.0007114	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00059	0.00035	0.004	No	17	0.0007806	0.0008233	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-18	0.0025	0.00033	0.004	No	17	0.001489	0.001106	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	17	0.002091	0.0009117	82.35	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0008127	0.0006499	0.004	No	17	0.0007313	0.0001299	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-22	0.0025	0.00033	0.004	No	17	0.002372	0.0005263	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	17	0.002365	0.0005578	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	17	0.002235	0.0007492	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	16	0.002232	0.0007376	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.00032	0.005	No	16	0.00142	0.001117	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	SGWC-18	0.0025	0.0002	0.005	No	16	0.001787	0.001093	68.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	16	0.002366	0.000535	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	16	0.0022	0.0008184	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	16	0.002368	0.0005275	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	16	0.002357	0.00057	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	16	0.002363	0.0005475	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	17	0.002018	0.00007276	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	17	0.001982	0.00007276	94.12	None	No	0.01	NP (NDs)

# Federal Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 1/6/2021, 12:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	SGWC-14	0.0026	0.0016	0.1	No	17	0.001841	0.0004199	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03523	0.03235	0.1	No	17	0.03379	0.002298	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01166	0.009383	0.1	No	17	0.01052	0.001814	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-17	0.006618	0.003941	0.1	No	17	0.005279	0.002136	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.009419	0.007171	0.1	No	17	0.008295	0.001794	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01602	0.01436	0.1	No	17	0.01519	0.001328	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	17	0.001947	0.0002741	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.002	0.1	No	17	0.0019	0.0002345	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0024	0.0015	0.1	No	17	0.001853	0.0004515	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0024	0.0014	0.1	No	17	0.001841	0.0003922	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0013	0.1	No	17	0.001835	0.0004743	52.94	None	No	0.01	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>SGWC-10</b>	<b>0.03255</b>	<b>0.02078</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.02666</b>	<b>0.009399</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>SGWC-11</b>	<b>0.02972</b>	<b>0.0231</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.02641</b>	<b>0.005281</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-12	0.004255	0.002802	0.02	No	17	0.003528	0.00116	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.008342	0.003611	0.02	No	17	0.005976	0.003776	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01226	0.00716	0.02	No	17	0.009709	0.004067	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>SGWC-15</b>	<b>0.2784</b>	<b>0.2595</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.2689</b>	<b>0.01503</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-16	0.004097	0.003341	0.02	No	17	0.003719	0.0006032	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.0025	0.00041	0.02	No	17	0.0009974	0.0008711	23.53	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-18</b>	<b>0.1638</b>	<b>0.1182</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.141</b>	<b>0.03639</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-19	0.0025	0.00016	0.02	No	17	0.001414	0.001079	47.06	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-20</b>	<b>0.227</b>	<b>0.1611</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.1941</b>	<b>0.05263</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-21	0.0025	0.00016	0.02	No	17	0.001807	0.001107	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003629	0.002033	0.02	No	17	0.002911	0.001381	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	17	0.002361	0.0005748	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.002475	0.0009441	0.02	No	17	0.002042	0.001186	29.41	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	SGWC-7	0.01166	0.005708	0.02	No	17	0.008682	0.004747	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.00265	0.00049	0.02	No	17	0.001908	0.0009914	64.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01358	0.007048	0.02	No	17	0.01032	0.005216	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.47	0.0222	5	No	17	0.3113	0.3776	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.5371	0.1597	5	No	17	0.3484	0.3012	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4754	0.1658	5	No	17	0.3206	0.247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4626	0.1318	5	No	17	0.2972	0.264	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.3975	0.0762	5	No	17	0.2368	0.2563	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.4846	0.2242	5	No	17	0.3544	0.2078	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.3809	0.1012	5	No	17	0.241	0.2232	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.4382	0.1649	5	No	17	0.3015	0.2181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.449	0.139	5	No	17	0.391	0.3843	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.396	0.0462	5	No	17	0.281	0.3745	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.639	0.315	5	No	17	0.477	0.2586	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.514	0.143	5	No	17	0.3878	0.3782	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.5491	0.1378	5	No	17	0.3912	0.445	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6918	0.3916	5	No	17	0.5417	0.2395	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.4094	0.1216	5	No	17	0.2655	0.2297	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.4989	0.2727	5	No	17	0.3858	0.1805	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.558	2.027	5	No	17	2.292	0.424	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.4168	0.1295	5	No	17	0.2731	0.2293	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-10	0.1	0.031	4	No	18	0.09167	0.02434	88.89	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	18	0.09283	0.01836	83.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.1046	0.06295	4	No	18	0.09289	0.03318	22.22	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.15	0.045	4	No	18	0.08911	0.03037	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.031	4	No	18	0.07756	0.03284	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	18	0.1422	0.05962	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.09	4	No	18	0.08694	0.02895	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.1	0.047	4	No	18	0.08372	0.03306	50	None	No	0.01	NP (normality)

# Federal Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 1/6/2021, 12:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-18	0.18	0.091	4	No	18	0.09385	0.0316	72.22	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.18	0.057	4	No	18	0.0972	0.03043	83.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2694	0.184	4	No	18	0.2299	0.07583	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09738	0.06776	4	No	18	0.09278	0.02317	38.89	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.1	4	No	18	0.08872	0.02605	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-23	0.1	0.044	4	No	18	0.07867	0.02664	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-6	0.14	0.089	4	No	18	0.1168	0.03718	16.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-7	0.2229	0.1733	4	No	18	0.1981	0.04099	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.4693	0.3564	4	No	18	0.4129	0.09329	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.1	0.061	4	No	18	0.08622	0.02426	50	None	No	0.01	NP (normality)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.015	No	17	0.0008982	0.0002873	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.015	No	17	0.0009641	0.0001479	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.015	No	17	0.0009306	0.000215	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.015	No	17	0.0009547	0.0001868	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.015	No	17	0.0009488	0.000211	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00025	0.015	No	17	0.0006724	0.0003653	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-21	0.001	0.00022	0.015	No	17	0.0009006	0.0002816	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00019	0.015	No	17	0.0009041	0.0002707	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.015	No	17	0.0009465	0.0002207	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.015	No	17	0.0009529	0.000194	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.015	No	17	0.0009912	0.0003638	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00029	0.015	No	17	0.0009582	0.0001722	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.04	No	17	0.004047	0.001407	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0011	0.04	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.04	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0011	0.04	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.003	0.04	No	17	0.0041	0.0009559	47.06	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.04	No	17	0.004794	0.0008489	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.04	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004745	0.003829	0.04	No	17	0.004676	0.0006713	29.41	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.04	No	17	0.004665	0.0009467	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004867	0.003896	0.04	No	16	0.004381	0.0007458	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0038	0.04	No	17	0.004394	0.001219	76.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.04	No	17	0.004529	0.001121	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.04	No	17	0.004212	0.0008838	41.18	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-7	0.005421	0.004167	0.04	No	16	0.004794	0.0009637	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.0021	0.04	No	17	0.004088	0.001468	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	17	0.0001959	0.00001698	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	17	0.0001937	0.00002595	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	17	0.0001829	0.00003852	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00011	0.002	No	17	0.0001533	0.00004641	41.18	None	No	0.01	NP (normality)
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	17	0.0001927	0.00003007	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00011	0.002	No	17	0.0001894	0.00002989	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.0001761	0.0001052	0.002	No	17	0.0001728	0.00004876	29.41	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.000082	0.002	No	17	0.0001856	0.00004071	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	17	0.0001941	0.0000245	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	17	0.0001865	0.00004754	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	17	0.0001927	0.00003007	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.1	No	16	0.01327	0.004731	87.5	None	No	0.01	NP (NDs)

# Federal Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.1	No 16	0.01336	0.004491	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.1	No 16	0.01323	0.004835	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.015	0.0013	0.1	No 16	0.005233	0.005875	25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.1	No 16	0.01411	0.00355	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00075	0.1	No 16	0.008034	0.007202	50	None	No	0.01	NP (normality)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No 17	0.004733	0.001101	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No 17	0.004724	0.001137	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No 17	0.004467	0.001506	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No 17	0.0045	0.001412	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.003064	0.0008773	0.05	No 17	0.003947	0.002846	41.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-16	0.005	0.0013	0.05	No 17	0.003678	0.001867	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No 17	0.004186	0.001814	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.01298	0.00446	0.05	No 17	0.009859	0.008406	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00096	0.05	No 17	0.004241	0.001693	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.0053	0.0011	0.05	No 17	0.003726	0.00196	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00033	0.05	No 17	0.004165	0.00186	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No 17	0.00419	0.001804	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No 17	0.004726	0.00113	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No 17	0.0009324	0.0002229	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No 17	0.0009506	0.0002037	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No 17	0.0009159	0.0002383	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No 17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00035	0.002	No 17	0.0009194	0.0002493	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.000095	0.002	No 17	0.0004619	0.0004207	35.29	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-18	0.00027	0.00012	0.002	No 17	0.0002515	0.0002329	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00028	0.00014	0.002	No 17	0.00023	0.0002066	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-22	0.001	0.00038	0.002	No 17	0.0009635	0.0001504	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-23	0.001	0.00016	0.002	No 17	0.0009506	0.0002037	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No 17	0.0009276	0.0002076	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00022	0.002	No 17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No 17	0.0008953	0.0002611	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.00027	0.002	No 17	0.0009571	0.0001771	94.12	None	No	0.01	NP (NDs)



# State Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:26 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	SGWC-10	0.03255	0.02078	0.02	Yes 17	0.02666	0.009399	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-11	0.02972	0.0231	0.02	Yes 17	0.02641	0.005281	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-15	0.2784	0.2595	0.02	Yes 17	0.2689	0.01503	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-18	0.1638	0.1182	0.02	Yes 17	0.141	0.03639	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-20	0.227	0.1611	0.02	Yes 17	0.1941	0.05263	0	None	No	0.01	Param.

# State Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 1/6/2021, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	17	0.0009312	0.0001591	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.0011	0.00076	0.01	No	17	0.001006	0.0001107	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-12	0.0011	0.0007	0.01	No	17	0.0008688	0.0002657	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	17	0.0009671	0.0001825	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	17	0.0009676	0.000199	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.001367	0.0008333	0.01	No	17	0.001216	0.0004967	23.53	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	17	0.0009465	0.0001511	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001045	0.00075	0.01	No	17	0.0009291	0.0001426	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.003149	0.001551	0.01	No	17	0.00235	0.001275	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	17	0.0009565	0.0001241	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.001	0.00051	0.01	No	17	0.0008994	0.0003394	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	17	0.0009859	0.00005821	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.00089	0.01	No	17	0.0008929	0.0002285	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	17	0.0009647	0.0001046	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	17	0.0009118	0.0001989	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.0006	0.01	No	17	0.0008965	0.0001798	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.00063	0.01	No	17	0.0008688	0.000223	64.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00074	0.01	No	17	0.0008794	0.0001931	52.94	None	No	0.01	NP (NDs)
Barium (mg/L)	SGWC-10	0.03276	0.02791	2	No	17	0.03034	0.003872	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.042	0.03709	2	No	17	0.03955	0.003923	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.04939	0.03782	2	No	17	0.04303	0.009405	0	None	x^2	0.01	Param.
Barium (mg/L)	SGWC-13	0.03421	0.02609	2	No	17	0.03015	0.006482	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.06077	0.05285	2	No	17	0.05681	0.006317	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.03962	0.03362	2	No	17	0.03662	0.004788	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.02475	0.01859	2	No	17	0.02199	0.005097	0	None	ln(x)	0.01	Param.
Barium (mg/L)	SGWC-17	0.0221	0.01846	2	No	17	0.02028	0.002908	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.02514	0.01558	2	No	17	0.0209	0.007937	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	SGWC-19	0.04215	0.03481	2	No	17	0.03848	0.005855	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03578	0.02648	2	No	17	0.03113	0.007424	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.1	0.09	2	No	17	0.09592	0.0105	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-22	0.09304	0.08262	2	No	17	0.08783	0.008309	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.093	0.065	2	No	17	0.07956	0.01209	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-6	0.1033	0.05764	2	No	17	0.08049	0.03646	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.3055	0.2578	2	No	17	0.2816	0.038	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.2	0.17	2	No	17	0.1839	0.02137	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-9	0.06912	0.05617	2	No	17	0.06264	0.01033	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	17	0.002368	0.0005433	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	17	0.002249	0.0007114	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00059	0.00035	0.004	No	17	0.0007806	0.0008233	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-18	0.0025	0.00033	0.004	No	17	0.001489	0.001106	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	17	0.002091	0.0009117	82.35	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0008127	0.0006499	0.004	No	17	0.0007313	0.0001299	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-22	0.0025	0.00033	0.004	No	17	0.002372	0.0005263	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	17	0.002365	0.0005578	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	17	0.002235	0.0007492	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	16	0.002232	0.0007376	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.00032	0.005	No	16	0.00142	0.001117	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	SGWC-18	0.0025	0.0002	0.005	No	16	0.001787	0.001093	68.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	16	0.002366	0.000535	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	16	0.0022	0.0008184	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	16	0.002368	0.0005275	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	16	0.002357	0.00057	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	16	0.002363	0.0005475	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	17	0.002018	0.00007276	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	17	0.001982	0.00007276	94.12	None	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 1/6/2021, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	SGWC-14	0.0026	0.0016	0.1	No	17	0.001841	0.0004199	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03523	0.03235	0.1	No	17	0.03379	0.002298	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01166	0.009383	0.1	No	17	0.01052	0.001814	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-17	0.006618	0.003941	0.1	No	17	0.005279	0.002136	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.009419	0.007171	0.1	No	17	0.008295	0.001794	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01602	0.01436	0.1	No	17	0.01519	0.001328	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	17	0.001947	0.0002741	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.002	0.1	No	17	0.0019	0.0002345	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0024	0.0015	0.1	No	17	0.001853	0.0004515	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0024	0.0014	0.1	No	17	0.001841	0.0003922	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0013	0.1	No	17	0.001835	0.0004743	52.94	None	No	0.01	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>SGWC-10</b>	<b>0.03255</b>	<b>0.02078</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.02666</b>	<b>0.009399</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>SGWC-11</b>	<b>0.02972</b>	<b>0.0231</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.02641</b>	<b>0.005281</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-12	0.004255	0.002802	0.02	No	17	0.003528	0.00116	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.008342	0.003611	0.02	No	17	0.005976	0.003776	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01226	0.00716	0.02	No	17	0.009709	0.004067	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>SGWC-15</b>	<b>0.2784</b>	<b>0.2595</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.2689</b>	<b>0.01503</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-16	0.004097	0.003341	0.02	No	17	0.003719	0.0006032	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.0025	0.00041	0.02	No	17	0.0009974	0.0008711	23.53	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-18</b>	<b>0.1638</b>	<b>0.1182</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.141</b>	<b>0.03639</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-19	0.0025	0.00016	0.02	No	17	0.001414	0.001079	47.06	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-20</b>	<b>0.227</b>	<b>0.1611</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.1941</b>	<b>0.05263</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-21	0.0025	0.00016	0.02	No	17	0.001807	0.001107	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003629	0.002033	0.02	No	17	0.002911	0.001381	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	17	0.002361	0.0005748	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.002475	0.0009441	0.02	No	17	0.002042	0.001186	29.41	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	SGWC-7	0.01166	0.005708	0.02	No	17	0.008682	0.004747	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.00265	0.00049	0.02	No	17	0.001908	0.0009914	64.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01358	0.007048	0.02	No	17	0.01032	0.005216	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.47	0.0222	5	No	17	0.3113	0.3776	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.5371	0.1597	5	No	17	0.3484	0.3012	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4754	0.1658	5	No	17	0.3206	0.247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4626	0.1318	5	No	17	0.2972	0.264	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.3975	0.0762	5	No	17	0.2368	0.2563	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.4846	0.2242	5	No	17	0.3544	0.2078	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.3809	0.1012	5	No	17	0.241	0.2232	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.4382	0.1649	5	No	17	0.3015	0.2181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.449	0.139	5	No	17	0.391	0.3843	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.396	0.0462	5	No	17	0.281	0.3745	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.639	0.315	5	No	17	0.477	0.2586	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.514	0.143	5	No	17	0.3878	0.3782	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.5491	0.1378	5	No	17	0.3912	0.445	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6918	0.3916	5	No	17	0.5417	0.2395	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.4094	0.1216	5	No	17	0.2655	0.2297	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.4989	0.2727	5	No	17	0.3858	0.1805	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.558	2.027	5	No	17	2.292	0.424	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.4168	0.1295	5	No	17	0.2731	0.2293	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-10	0.1	0.031	4	No	18	0.09167	0.02434	88.89	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	18	0.09283	0.01836	83.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.1046	0.06295	4	No	18	0.09289	0.03318	22.22	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.15	0.045	4	No	18	0.08911	0.03037	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.031	4	No	18	0.07756	0.03284	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	18	0.1422	0.05962	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.09	4	No	18	0.08694	0.02895	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.1	0.047	4	No	18	0.08372	0.03306	50	None	No	0.01	NP (normality)

# State Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-18	0.18	0.091	4	No	18	0.09385	0.0316	72.22	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.18	0.057	4	No	18	0.0972	0.03043	83.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2694	0.184	4	No	18	0.2299	0.07583	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09738	0.06776	4	No	18	0.09278	0.02317	38.89	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.1	4	No	18	0.08872	0.02605	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-23	0.1	0.044	4	No	18	0.07867	0.02664	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-6	0.14	0.089	4	No	18	0.1168	0.03718	16.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-7	0.2229	0.1733	4	No	18	0.1981	0.04099	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.4693	0.3564	4	No	18	0.4129	0.09329	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.1	0.061	4	No	18	0.08622	0.02426	50	None	No	0.01	NP (normality)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.001	No	17	0.0008982	0.0002873	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.001	No	17	0.0009641	0.0001479	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.001	No	17	0.0009306	0.000215	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.001	No	17	0.0009547	0.0001868	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.001	No	17	0.0009488	0.000211	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00025	0.001	No	17	0.0006724	0.0003653	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-21	0.001	0.00022	0.001	No	17	0.0009006	0.0002816	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00019	0.001	No	17	0.0009041	0.0002707	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.001	No	17	0.0009465	0.0002207	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.001	No	17	0.0009529	0.000194	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.001	No	17	0.0009912	0.0003638	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00029	0.001	No	17	0.0009582	0.0001722	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.005	No	17	0.004047	0.001407	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0011	0.005	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.005	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0011	0.005	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.003	0.005	No	17	0.0041	0.0009559	47.06	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.005	No	17	0.004794	0.0008489	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.005	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004745	0.003829	0.005	No	17	0.004676	0.0006713	29.41	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.005	No	17	0.004665	0.0009467	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004867	0.003896	0.005	No	16	0.004381	0.0007458	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0038	0.005	No	17	0.004394	0.001219	76.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.005	No	17	0.004529	0.001121	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.005	No	17	0.004212	0.0008838	41.18	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-7	0.005421	0.004167	0.005	No	16	0.004794	0.0009637	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.0021	0.005	No	17	0.004088	0.001468	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	17	0.0001959	0.00001698	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	17	0.0001937	0.00002595	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	17	0.0001829	0.00003852	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00011	0.002	No	17	0.0001533	0.00004641	41.18	None	No	0.01	NP (normality)
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	17	0.0001927	0.00003007	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00011	0.002	No	17	0.0001894	0.00002989	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.0001761	0.0001052	0.002	No	17	0.0001728	0.00004876	29.41	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.000082	0.002	No	17	0.0001856	0.00004071	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	17	0.0001941	0.0000245	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	17	0.0001865	0.00004754	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	17	0.0001927	0.00003007	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.015	No	16	0.01327	0.004731	87.5	None	No	0.01	NP (NDs)

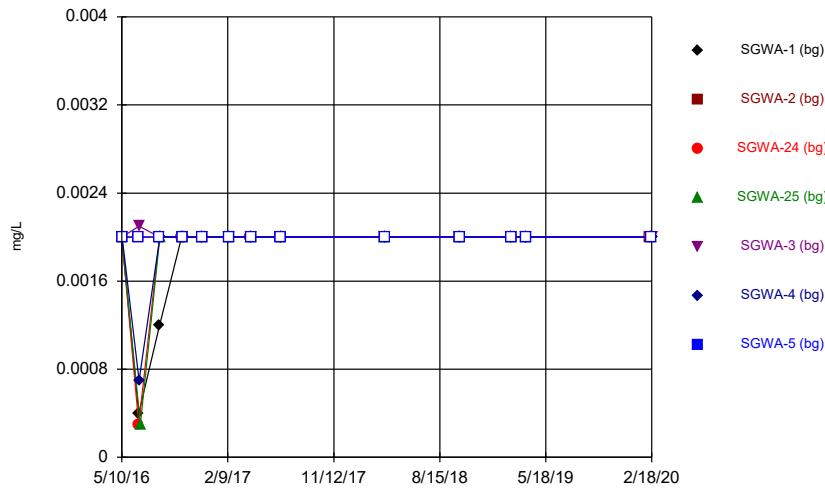
# State Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.015	No 16	0.01336	0.004491	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.015	No 16	0.01323	0.004835	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.015	0.0013	0.015	No 16	0.005233	0.005875	25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.015	No 16	0.01411	0.00355	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00075	0.015	No 16	0.008034	0.007202	50	None	No	0.01	NP (normality)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No 17	0.004733	0.001101	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No 17	0.004724	0.001137	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No 17	0.004467	0.001506	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No 17	0.0045	0.001412	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.003064	0.0008773	0.05	No 17	0.003947	0.002846	41.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-16	0.005	0.0013	0.05	No 17	0.003678	0.001867	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No 17	0.004186	0.001814	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.01298	0.00446	0.05	No 17	0.009859	0.008406	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00096	0.05	No 17	0.004241	0.001693	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.0053	0.0011	0.05	No 17	0.003726	0.00196	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00033	0.05	No 17	0.004165	0.00186	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No 17	0.00419	0.001804	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No 17	0.004726	0.00113	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No 17	0.0009324	0.0002229	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No 17	0.0009506	0.0002037	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No 17	0.0009159	0.0002383	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No 17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00035	0.002	No 17	0.0009194	0.0002493	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.000095	0.002	No 17	0.0004619	0.0004207	35.29	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-18	0.00027	0.00012	0.002	No 17	0.0002515	0.0002329	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00028	0.00014	0.002	No 17	0.00023	0.0002066	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-22	0.001	0.00038	0.002	No 17	0.0009635	0.0001504	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-23	0.001	0.00016	0.002	No 17	0.0009506	0.0002037	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No 17	0.0009276	0.0002076	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00022	0.002	No 17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No 17	0.0008953	0.0002611	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.00027	0.002	No 17	0.0009571	0.0001771	94.12	None	No	0.01	NP (NDs)

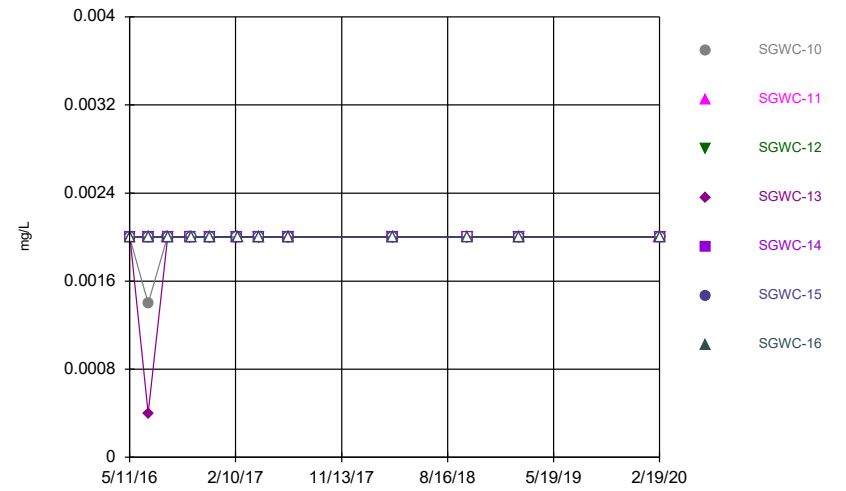
FIGURE A.

Time Series



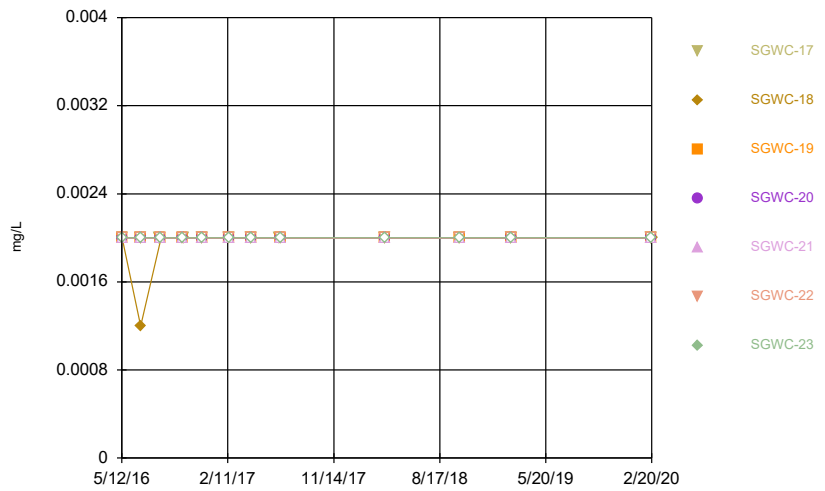
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Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



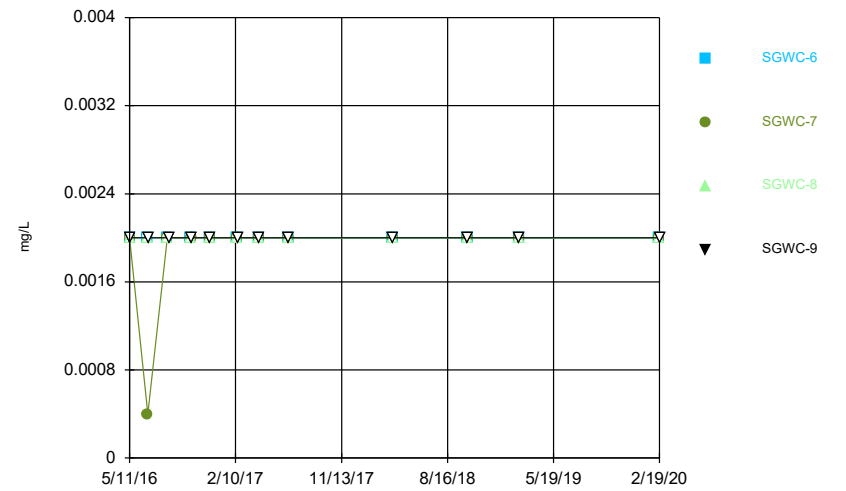
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Time Series



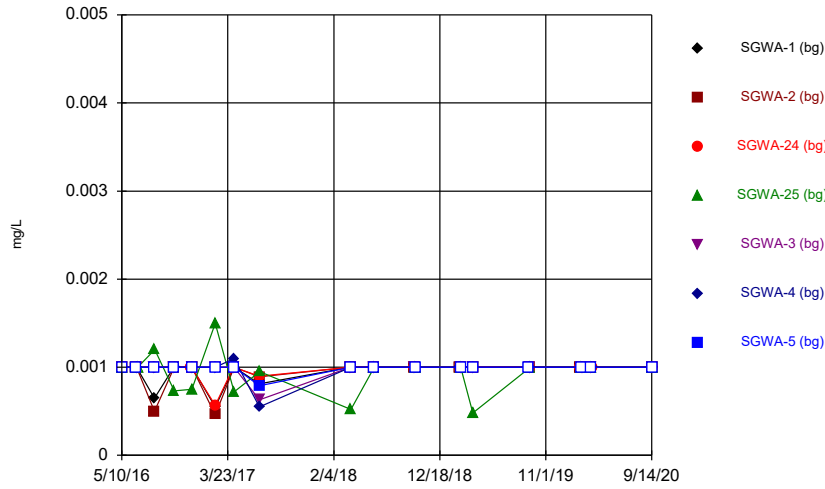
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Time Series



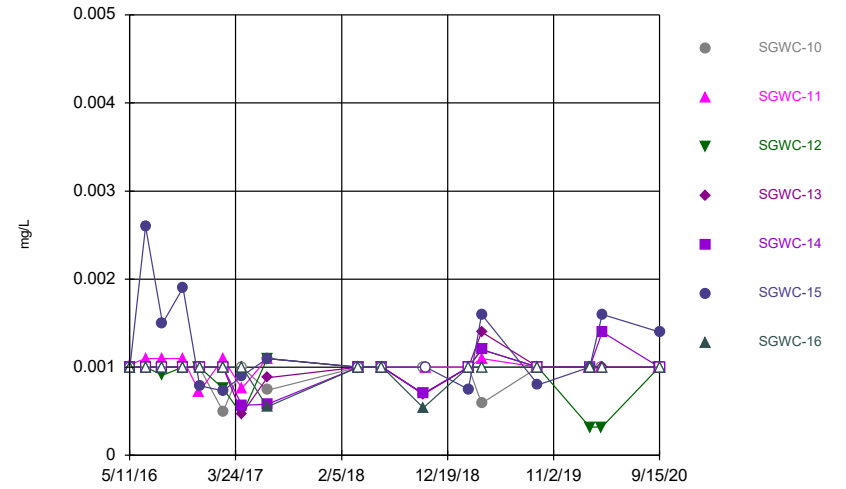
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### Time Series



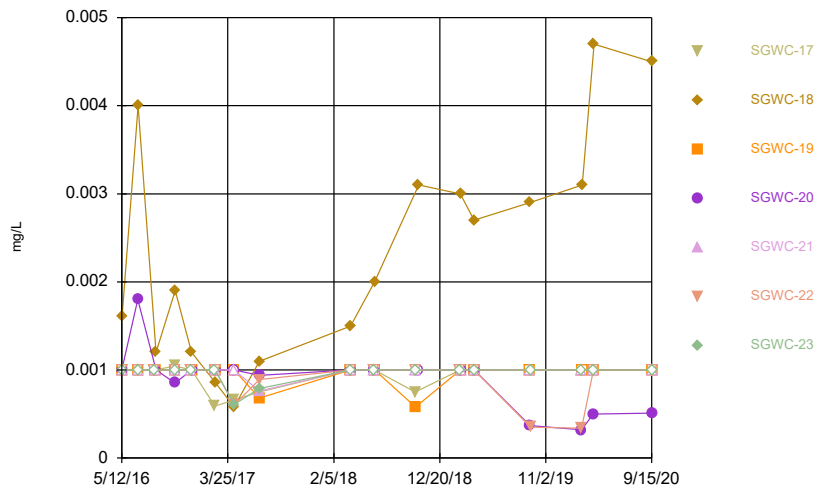
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### Time Series



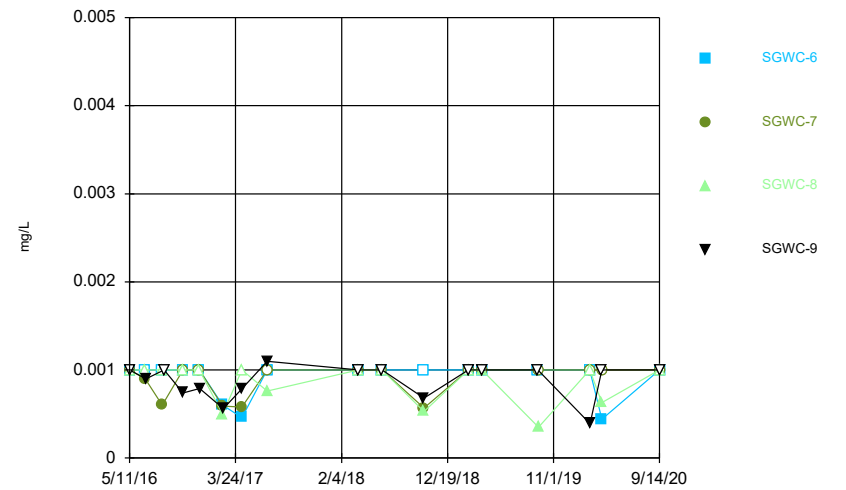
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### Time Series



Constituent: Arsenic Analysis Run 1/6/2021 12:33 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

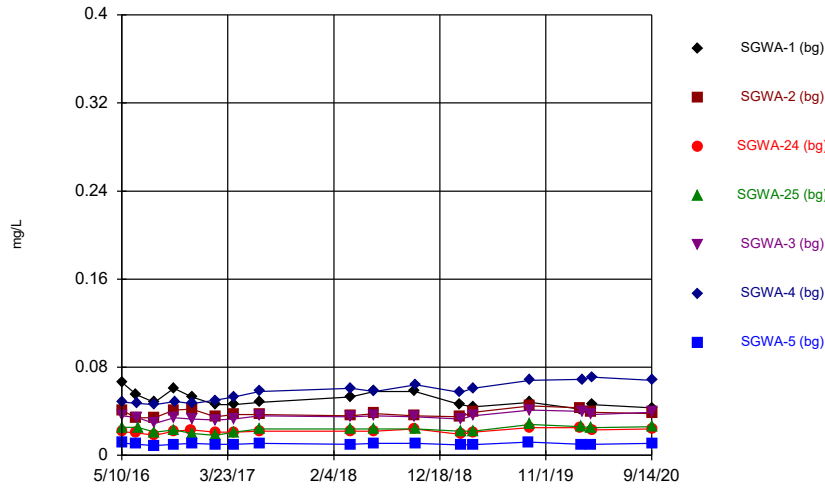
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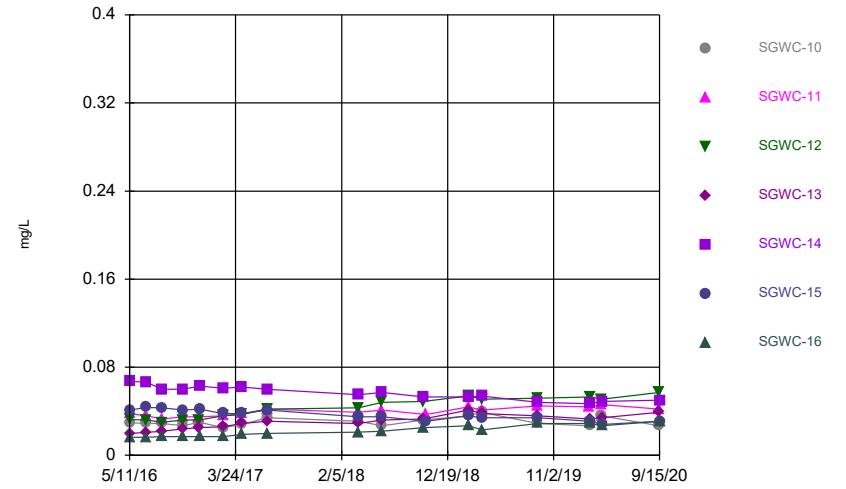


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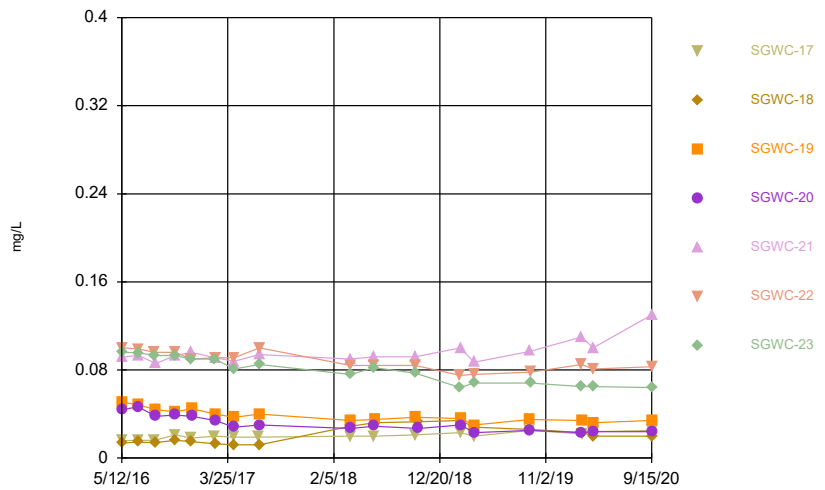
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### Time Series



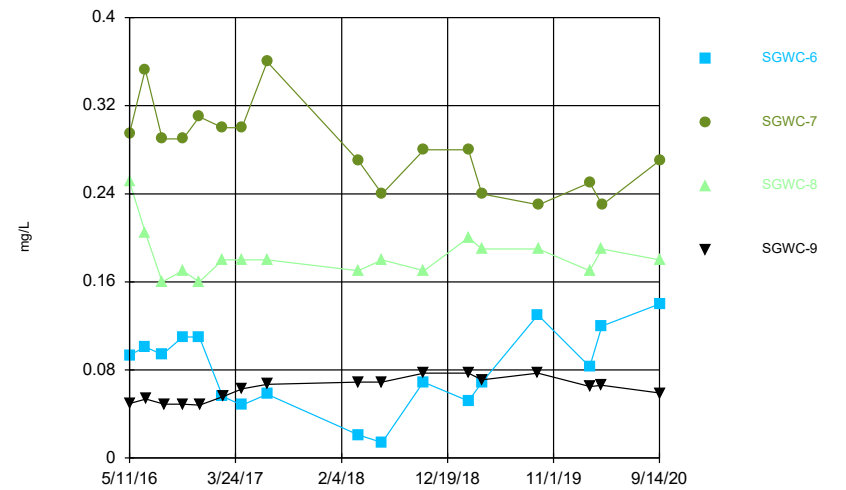
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### Time Series



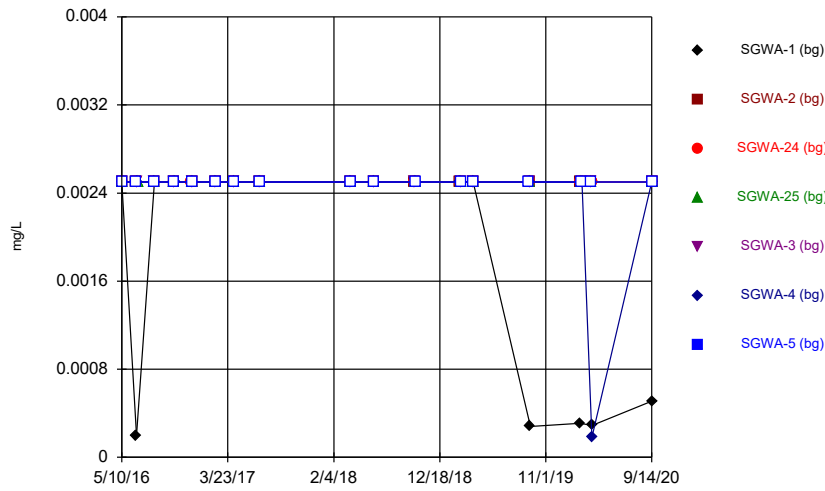
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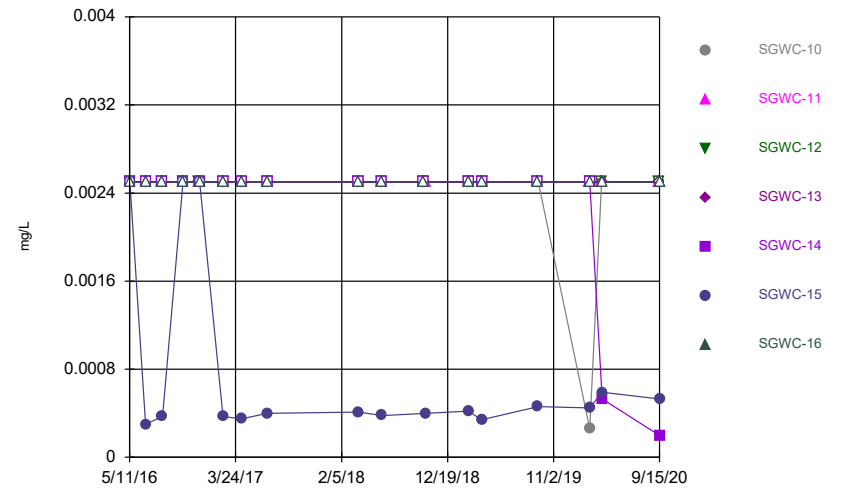
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



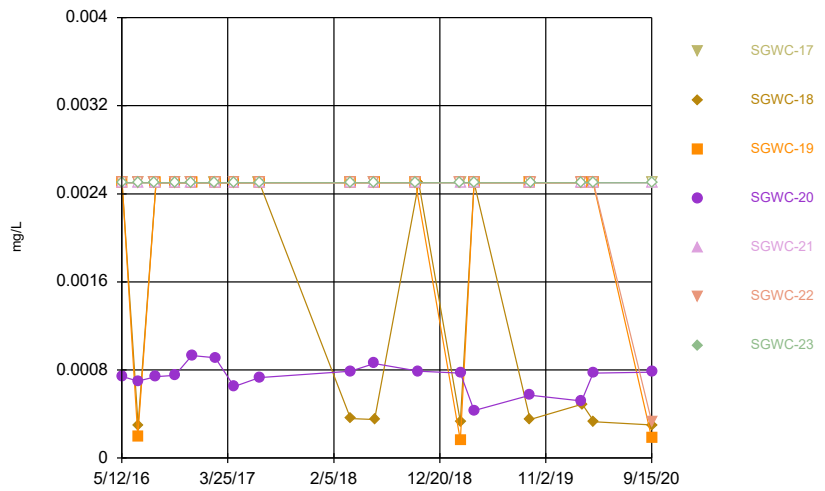
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Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



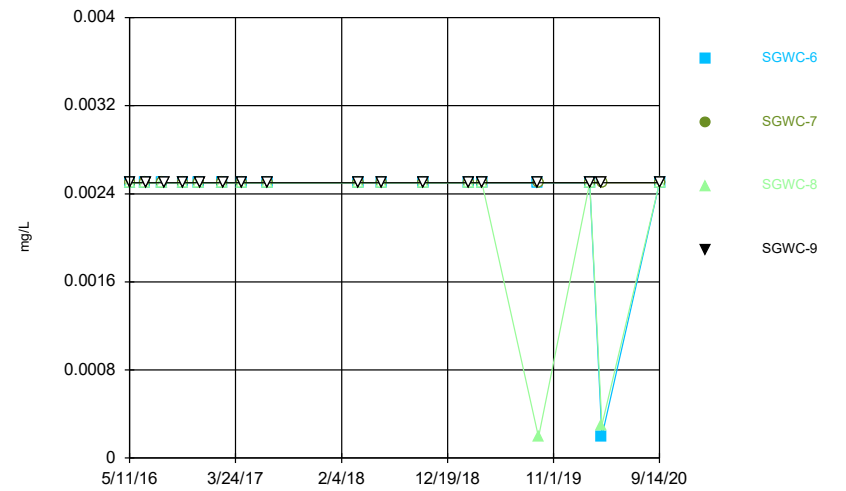
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Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



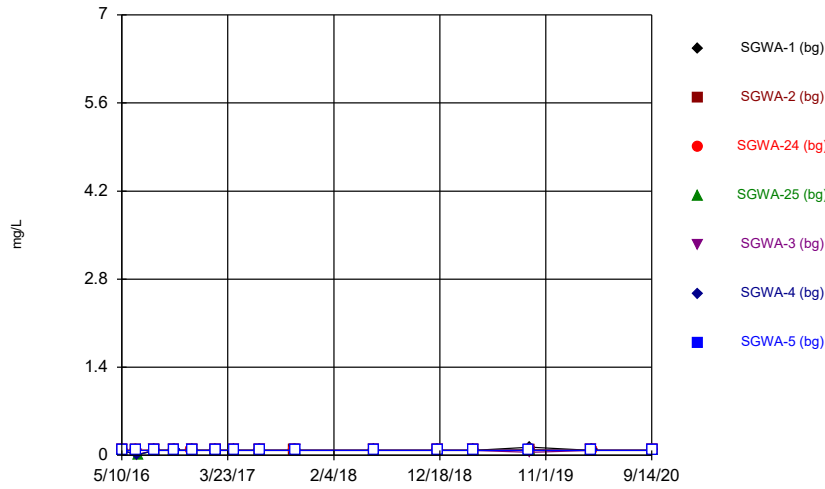
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Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



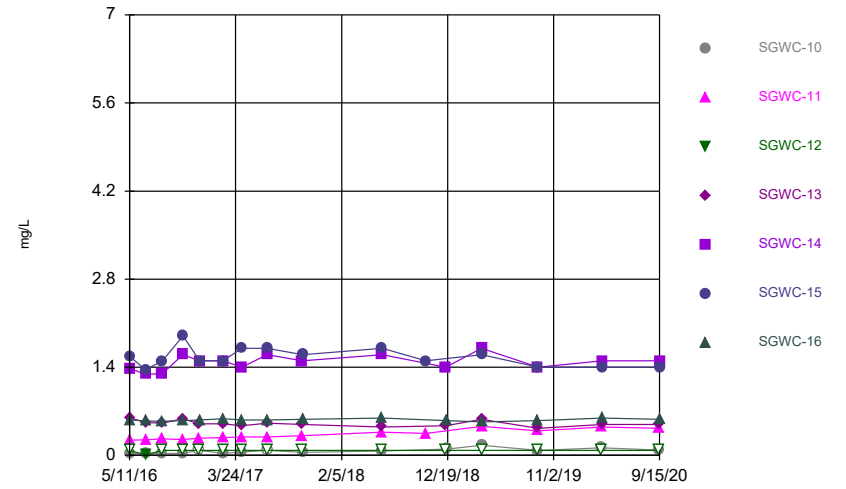
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Time Series



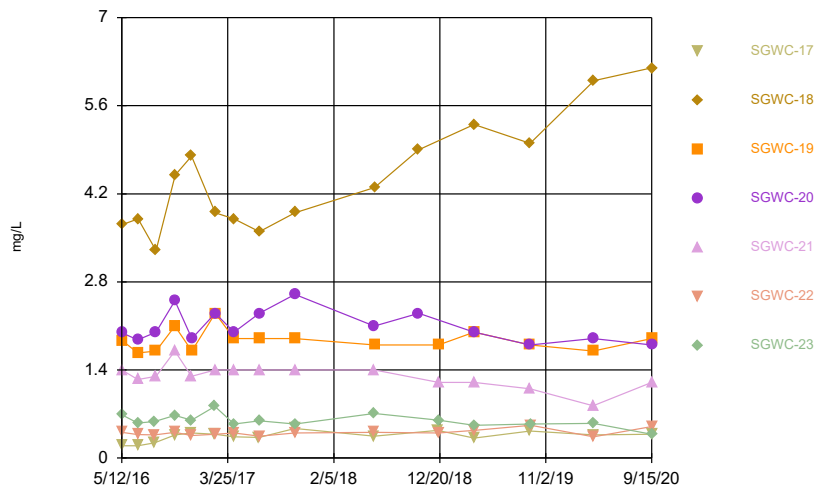
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Time Series



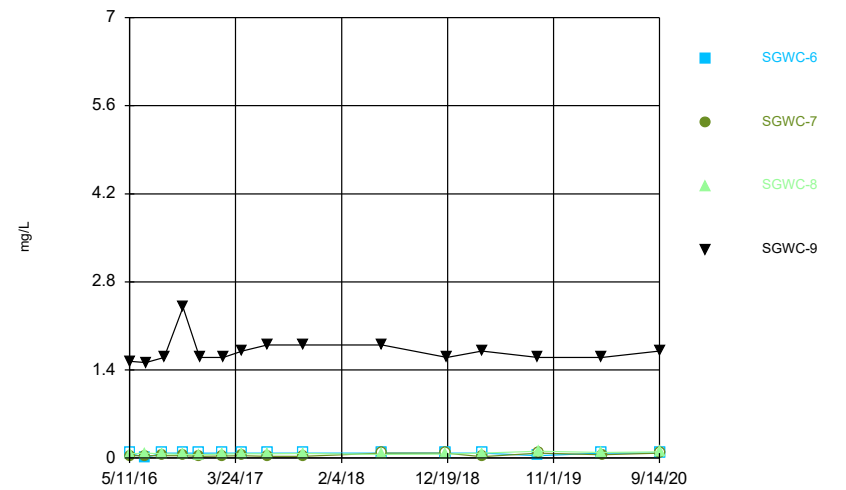
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Time Series



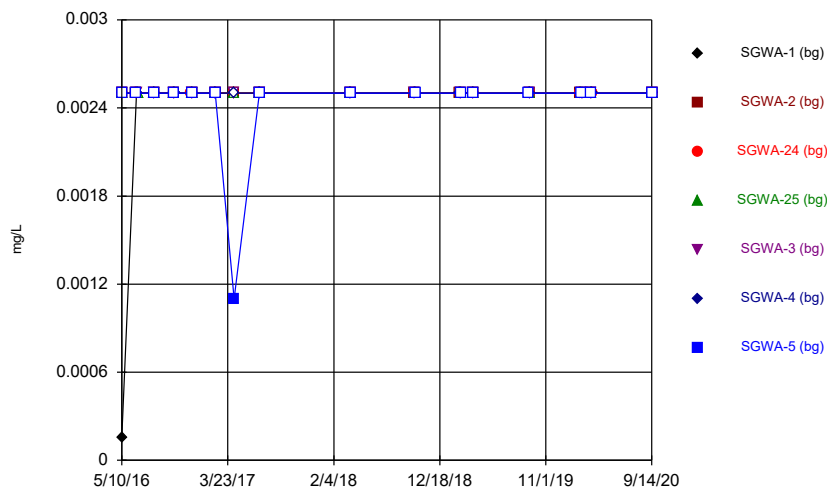
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Time Series



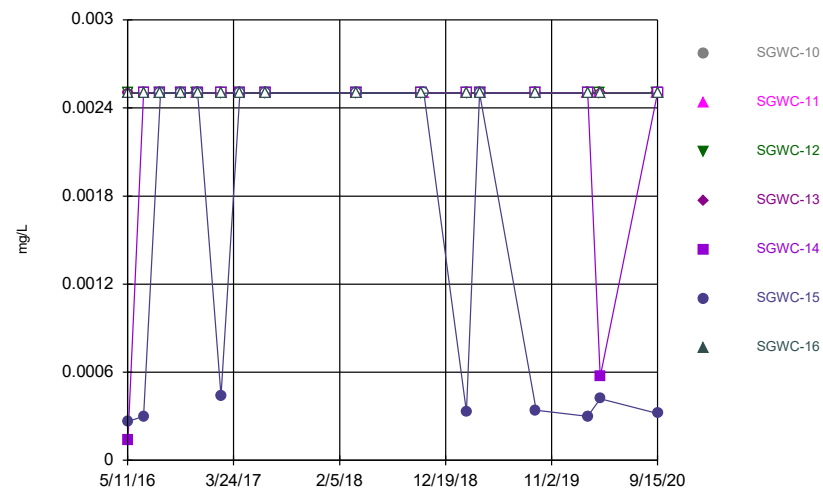
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### Time Series



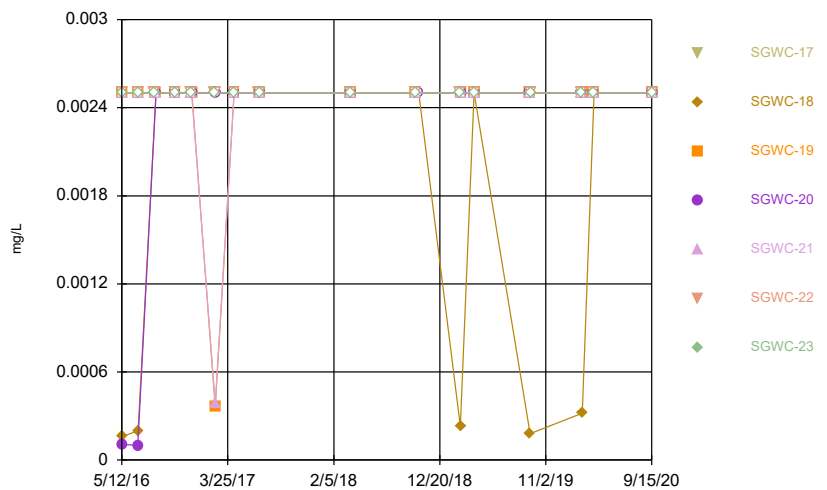
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### Time Series



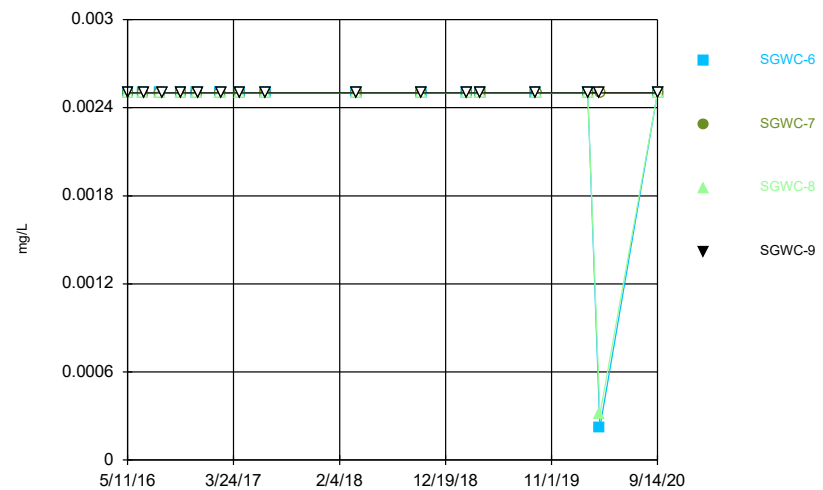
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### Time Series



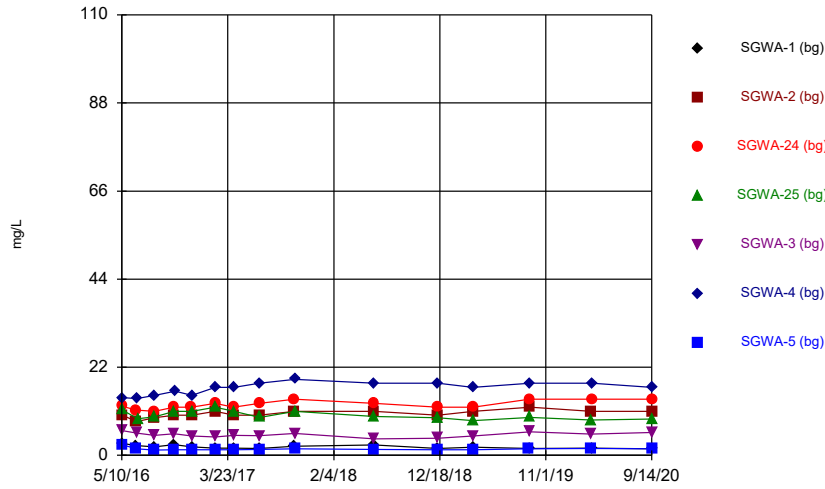
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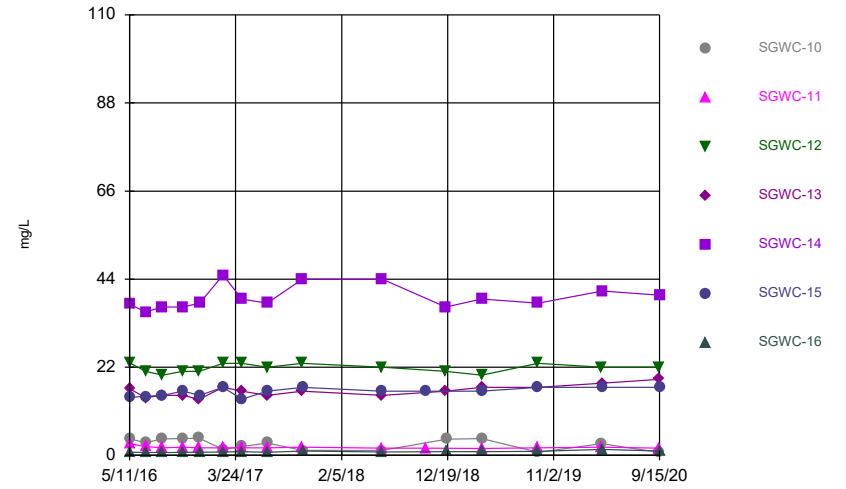
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Time Series



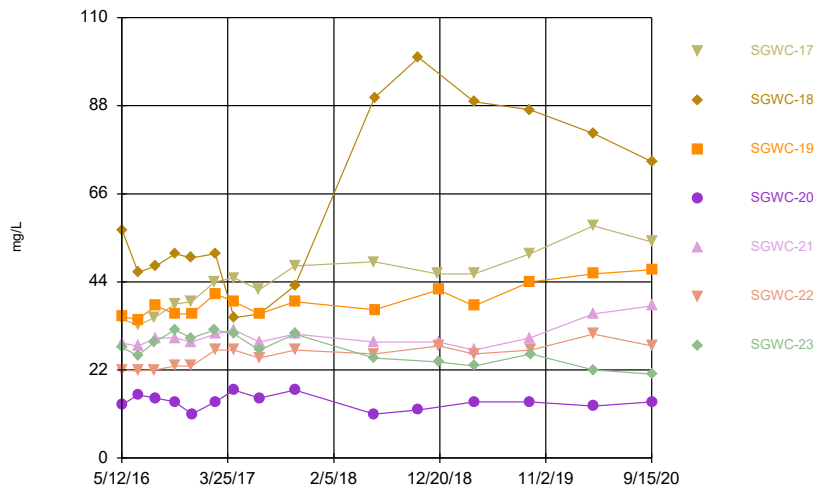
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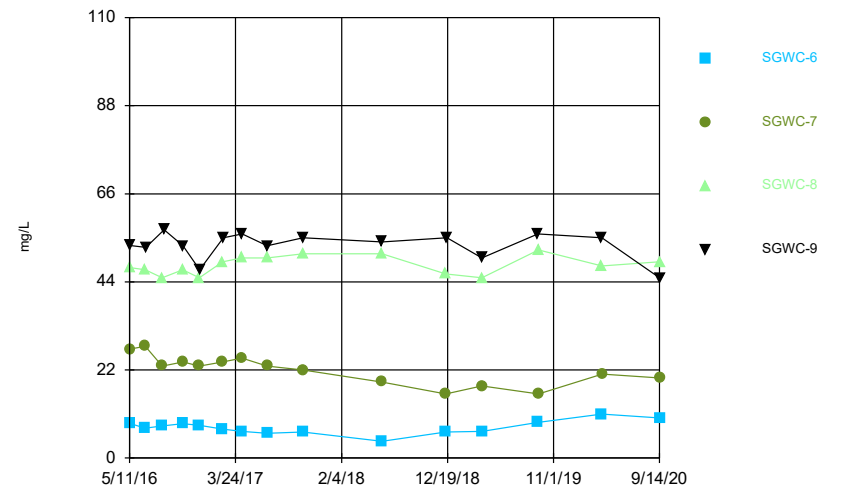
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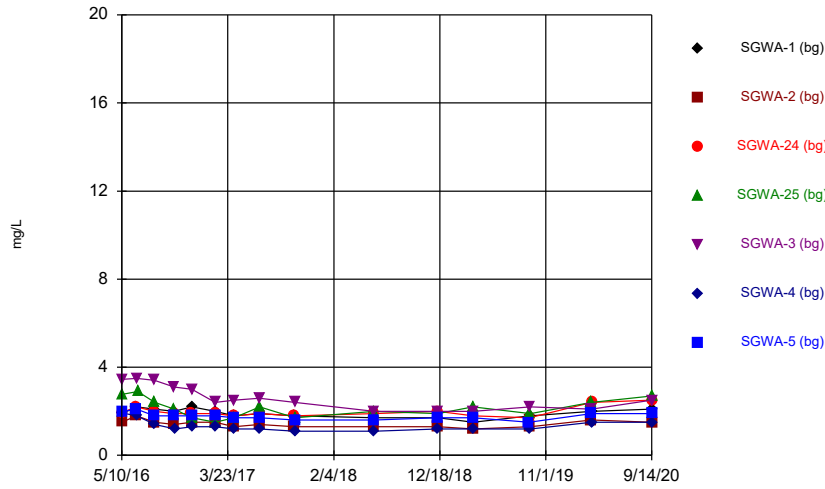
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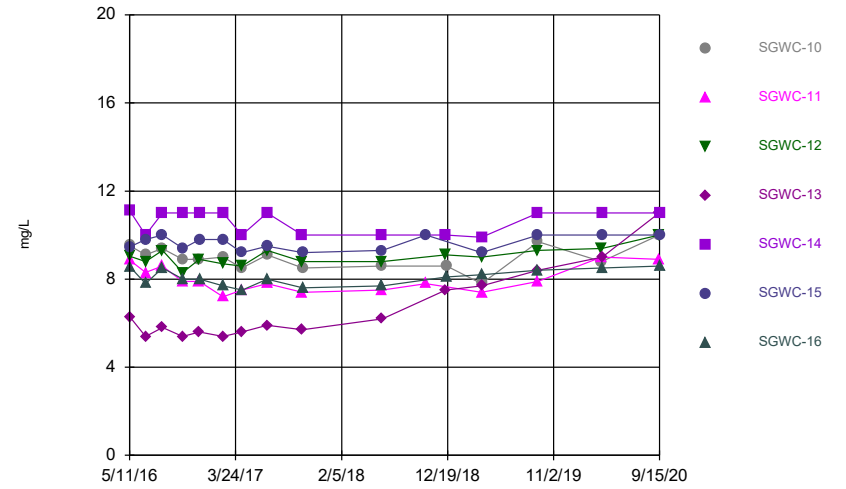
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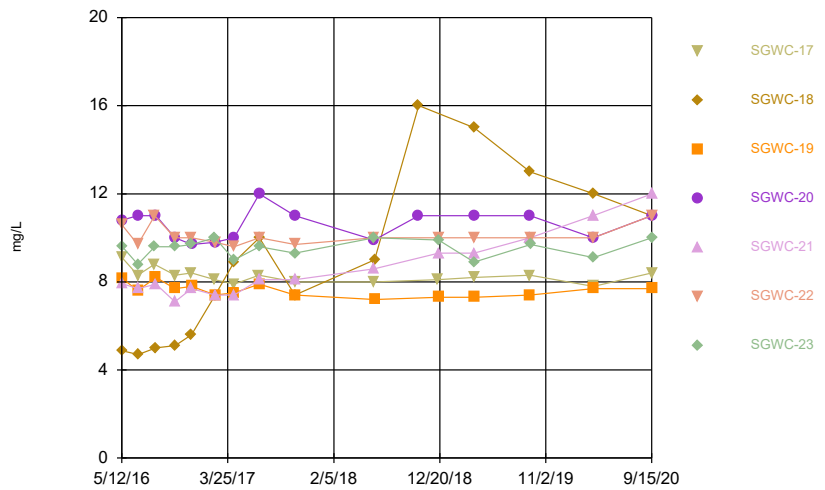
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Time Series



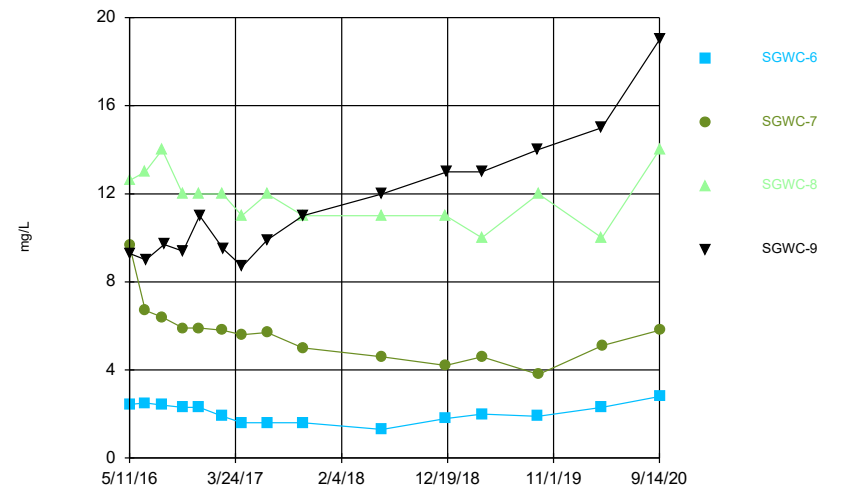
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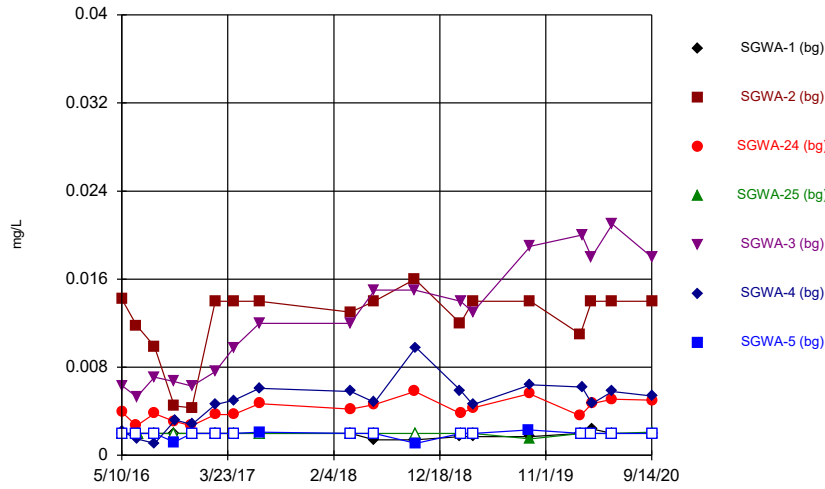
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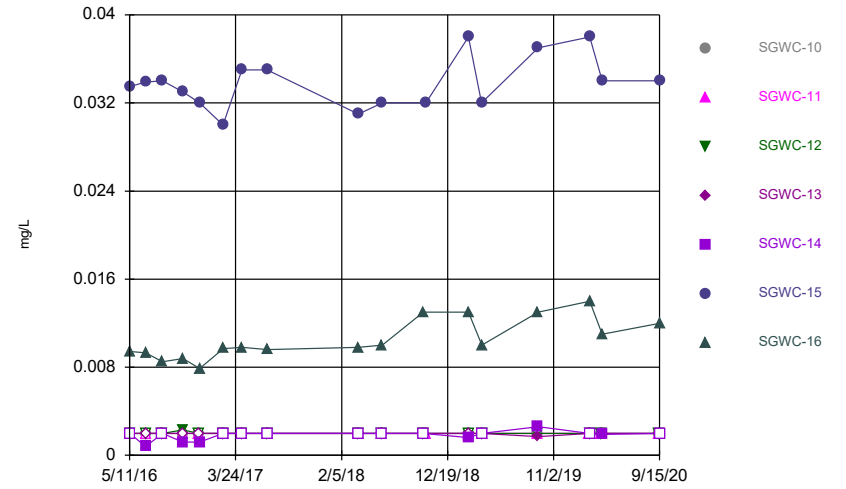
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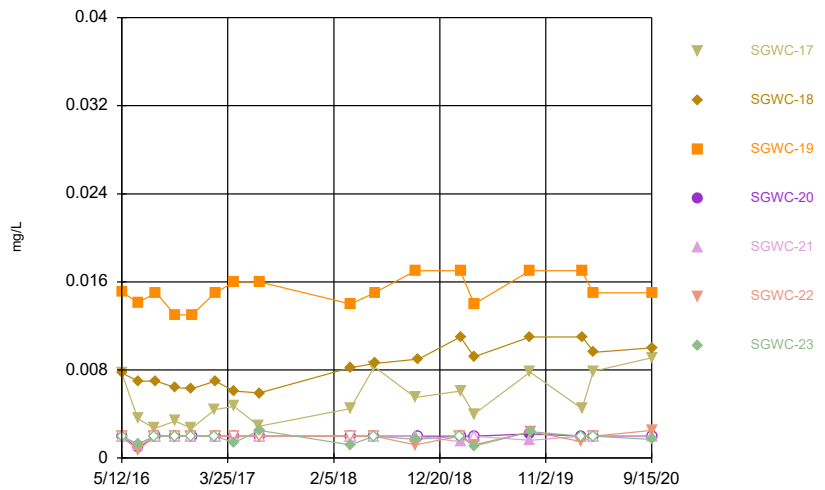
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Time Series



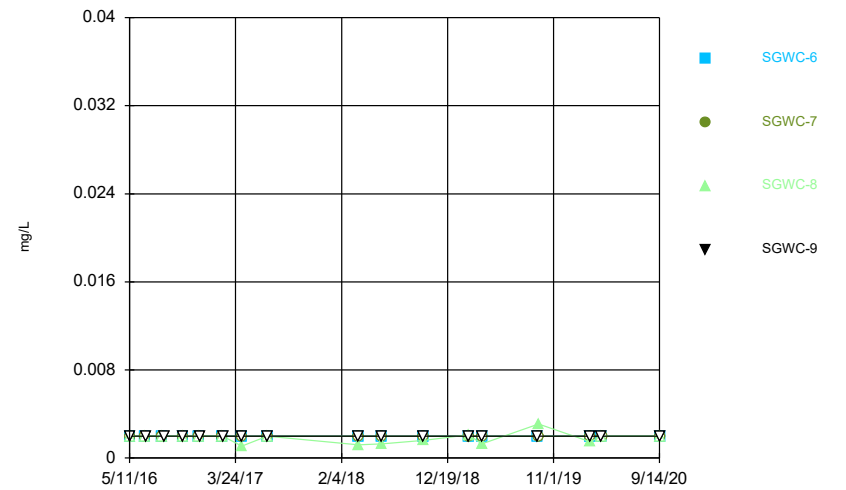
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Time Series



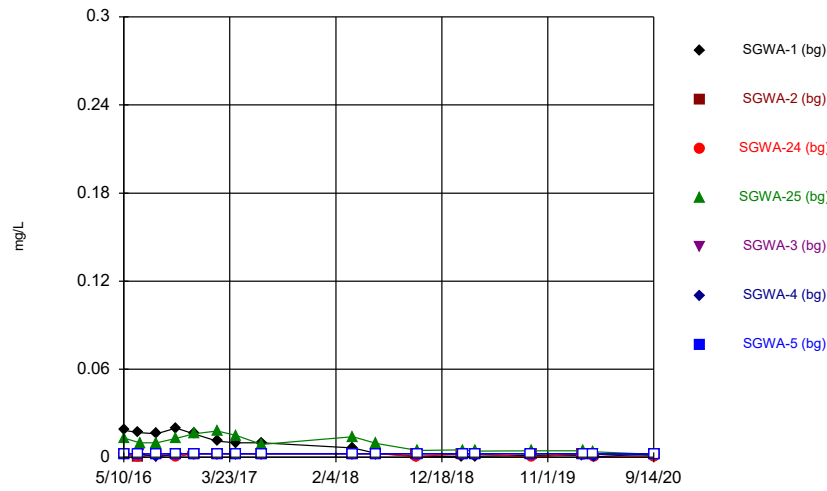
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Time Series



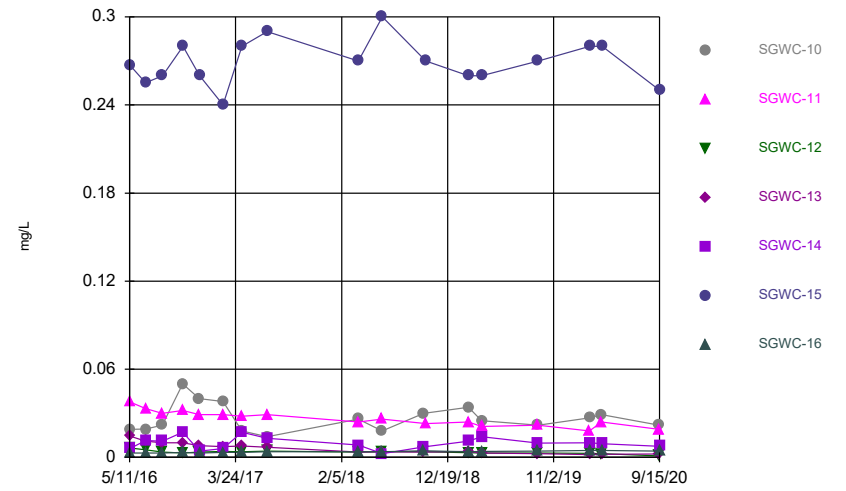
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### Time Series



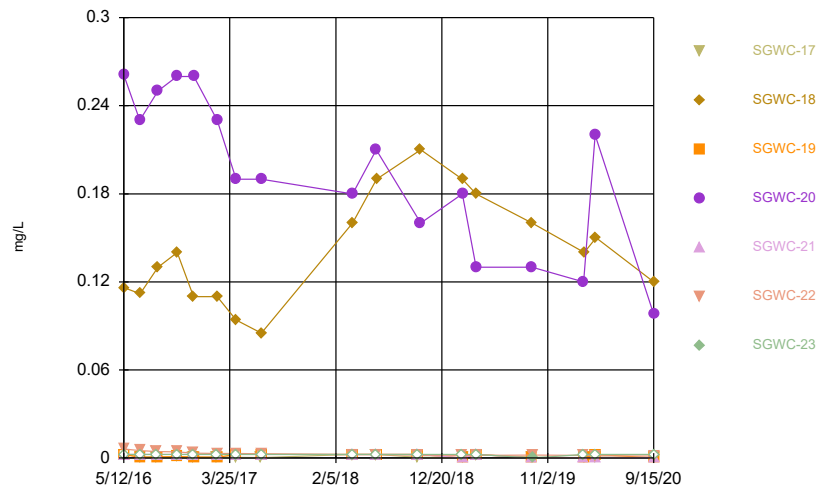
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Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



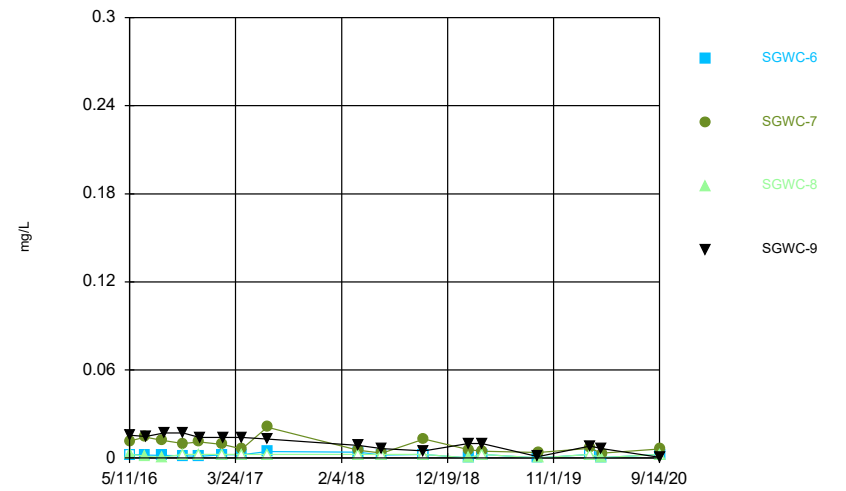
Constituent: Cobalt Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



Constituent: Cobalt Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

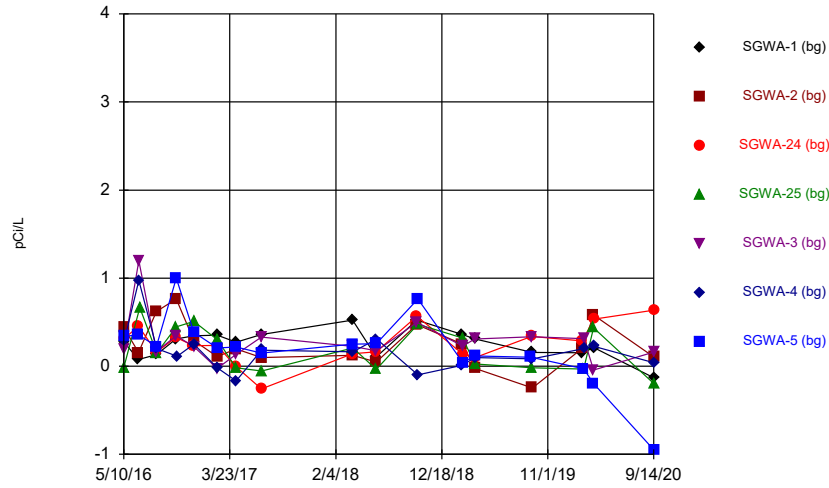
### Time Series



Constituent: Cobalt Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

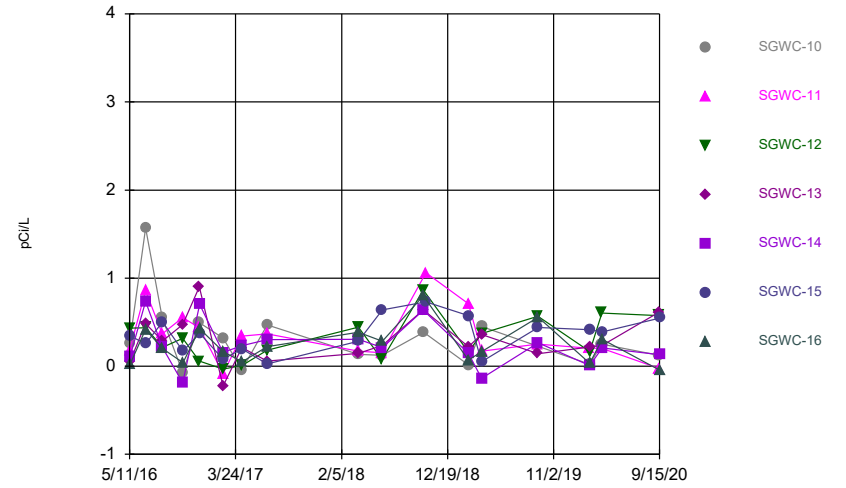


Time Series



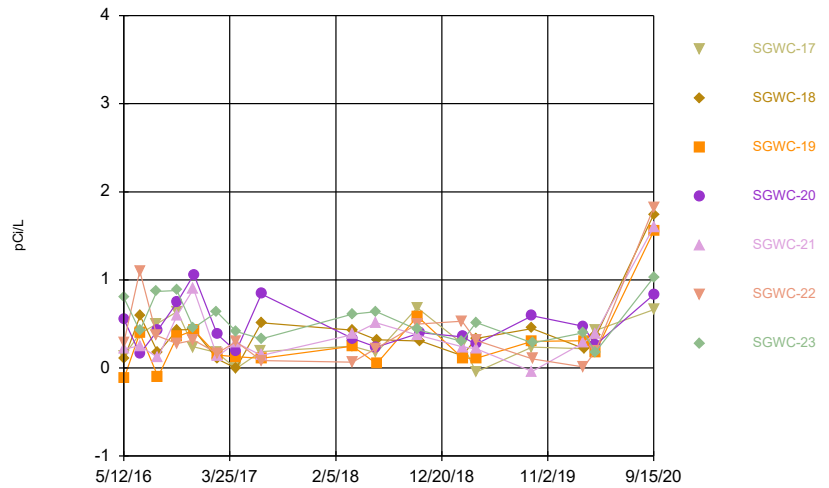
Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



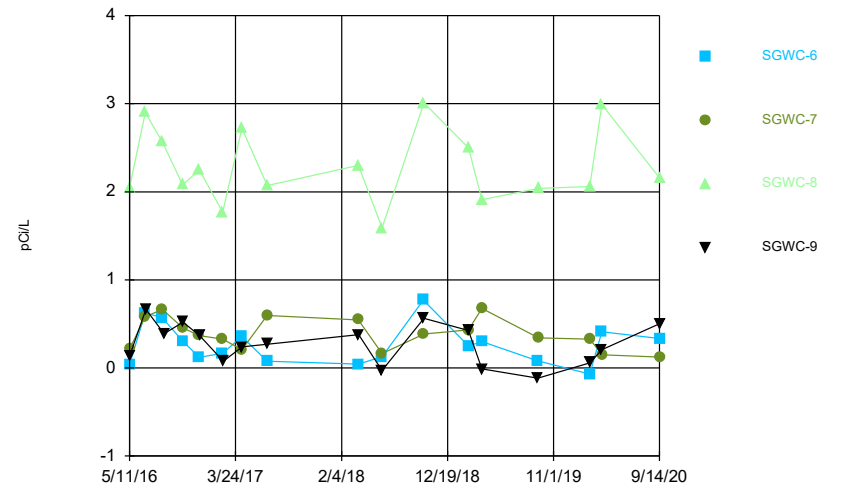
Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



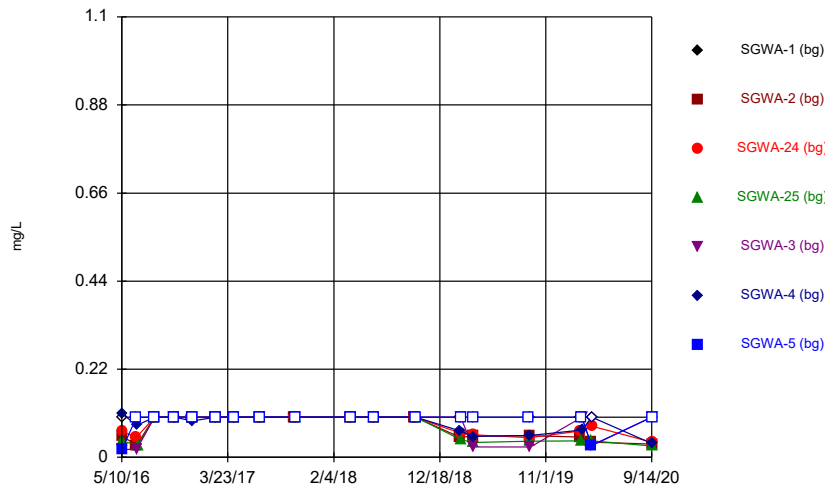
Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



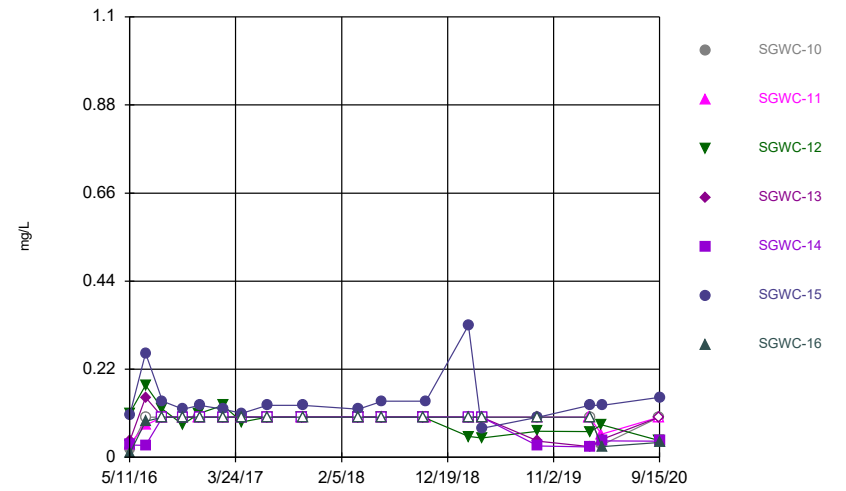
Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



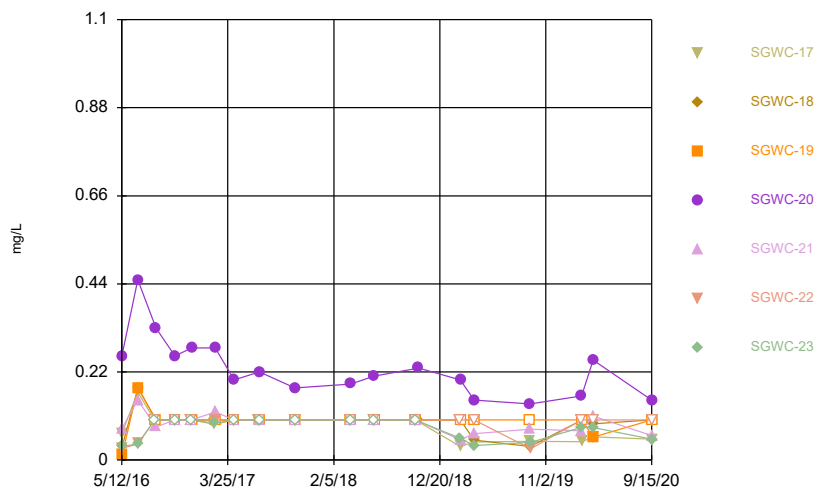
Constituent: Fluoride, total Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



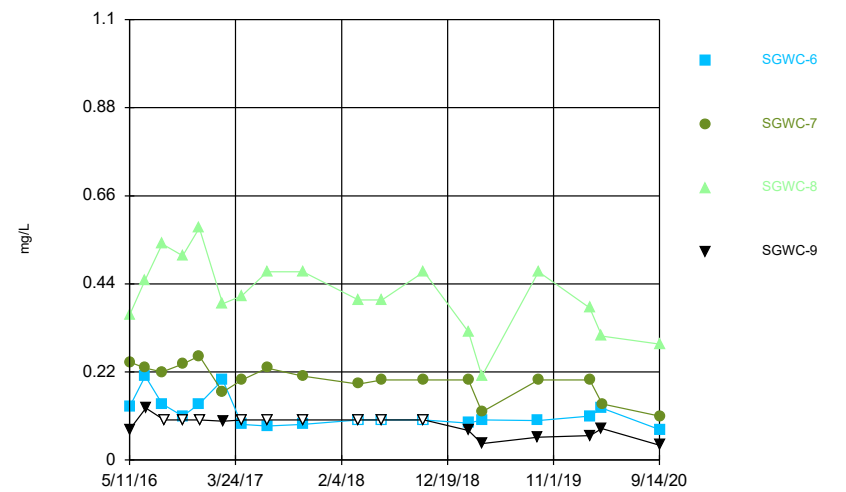
Constituent: Fluoride, total Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



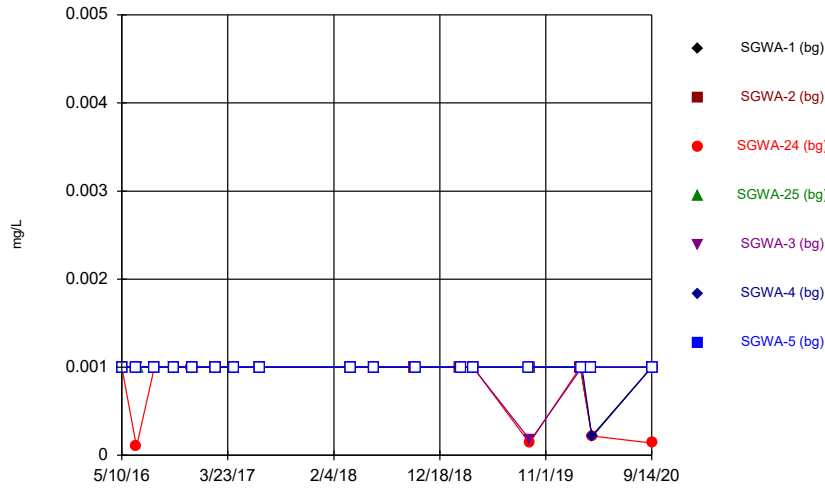
Constituent: Fluoride, total Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



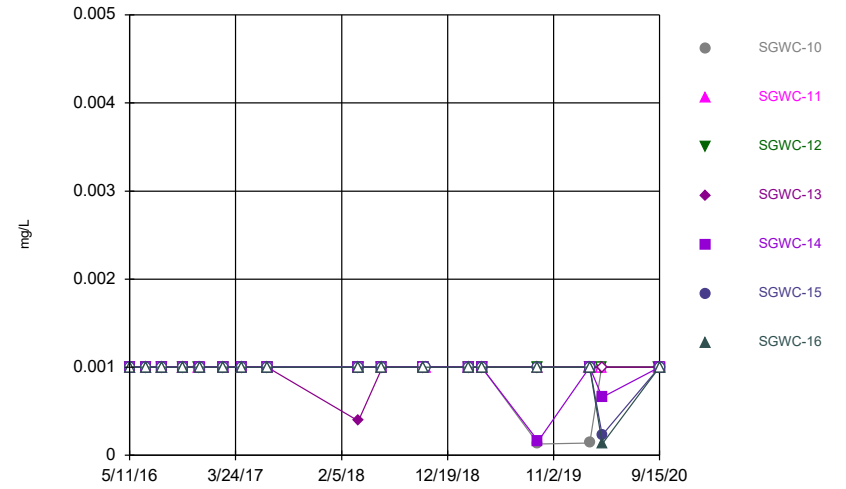
Constituent: Fluoride, total Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



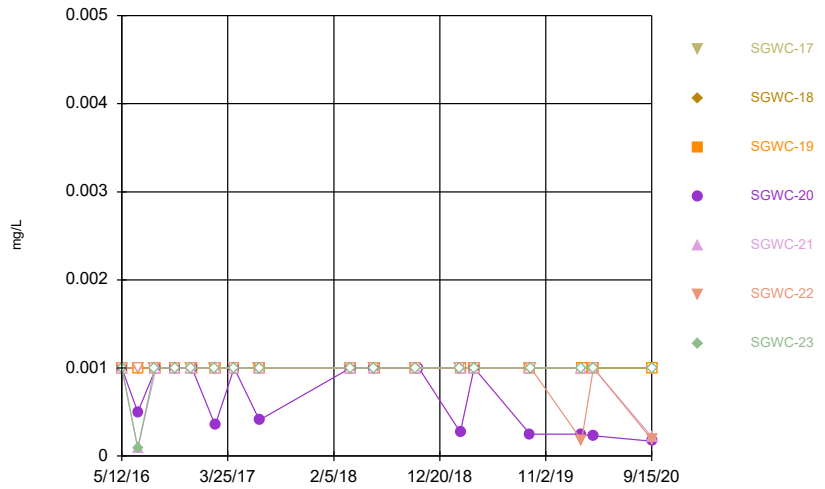
Constituent: Lead Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



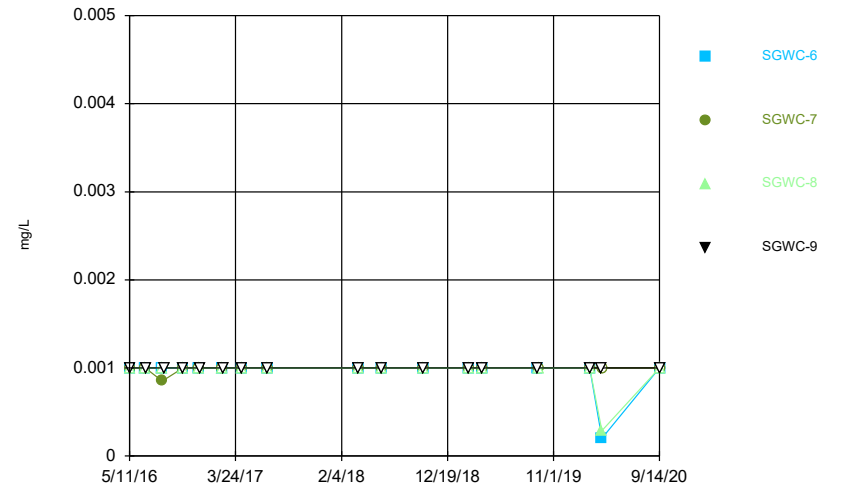
Constituent: Lead Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



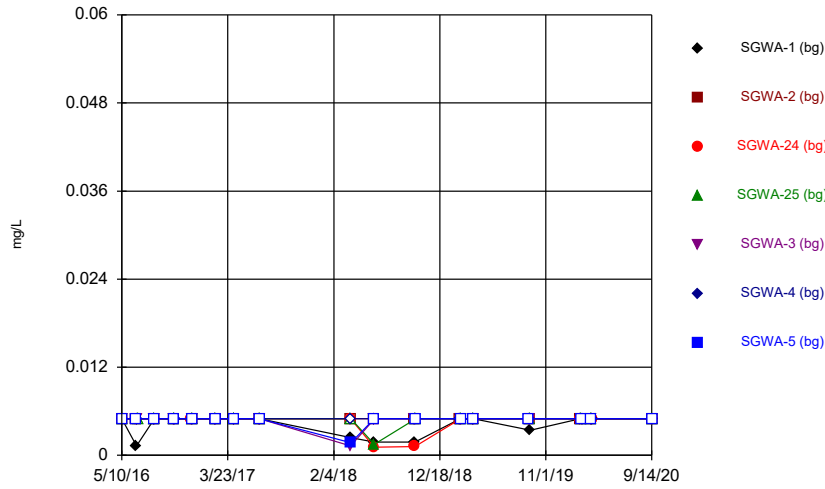
Constituent: Lead Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



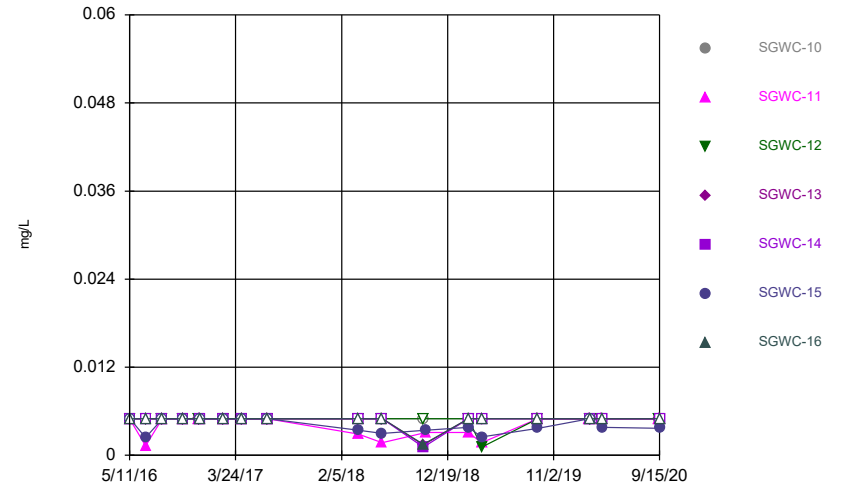
Constituent: Lead Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



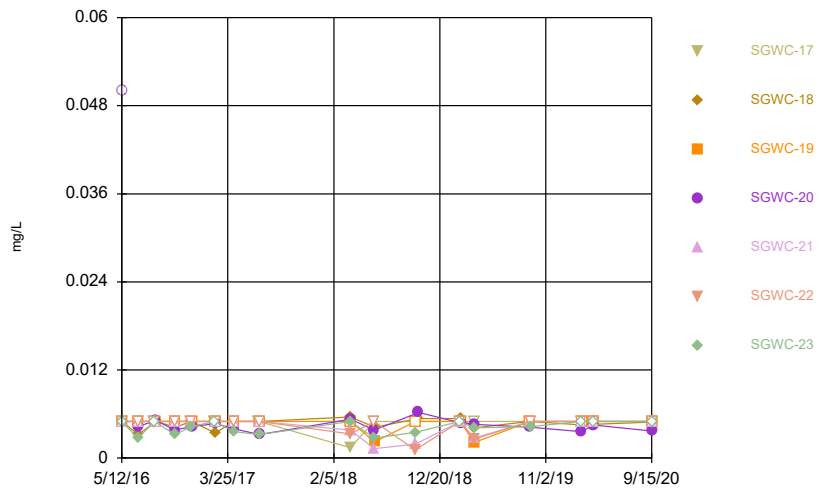
Constituent: Lithium Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



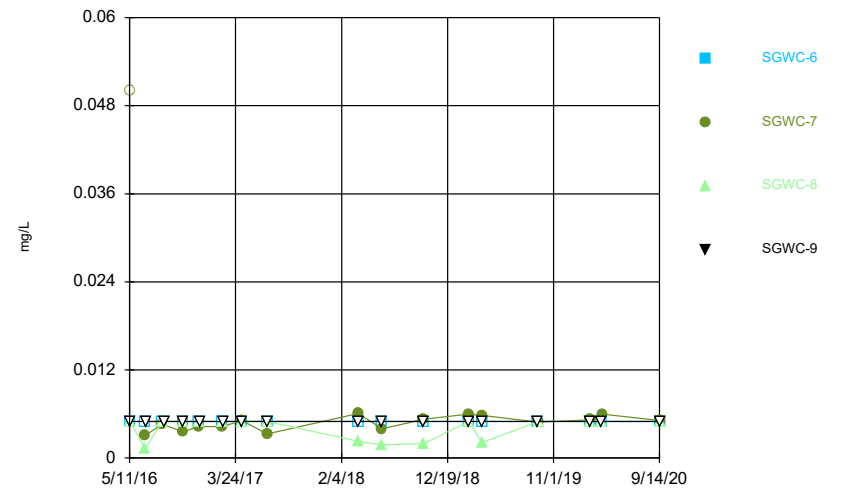
Constituent: Lithium Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



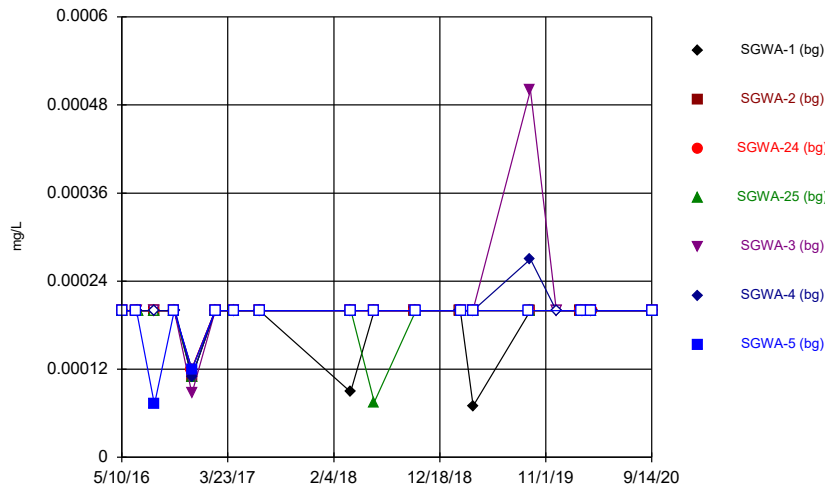
Constituent: Lithium Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



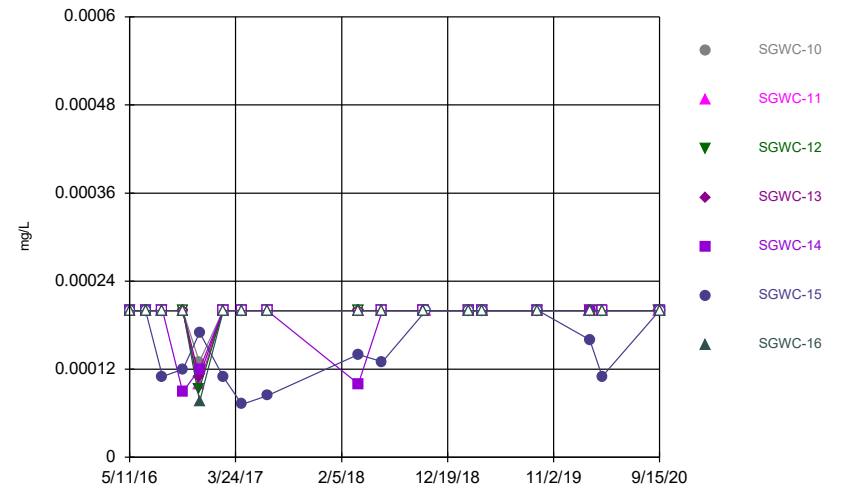
Constituent: Lithium Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



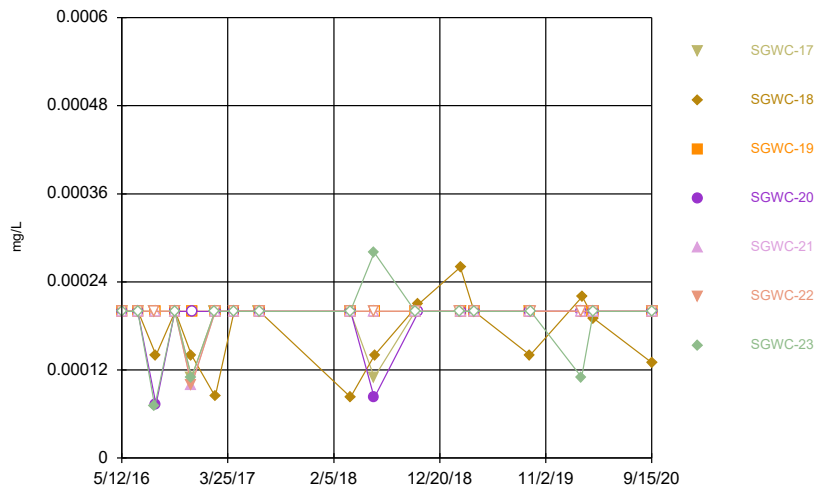
Constituent: Mercury Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



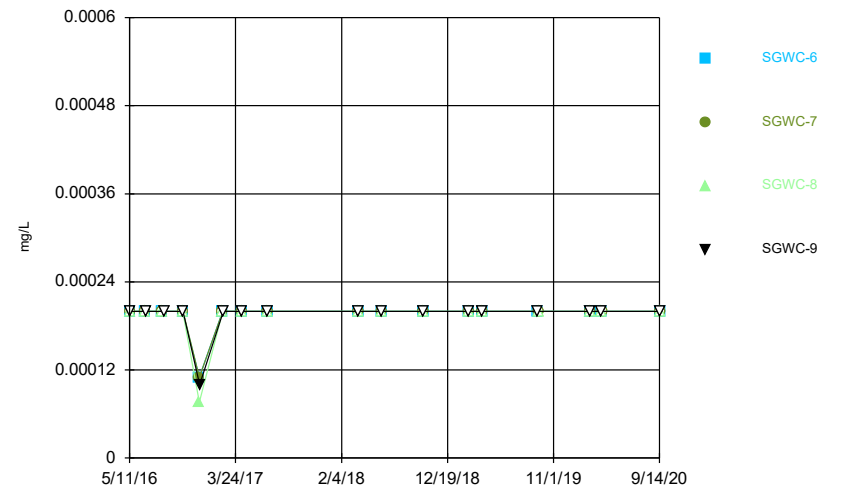
Constituent: Mercury Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



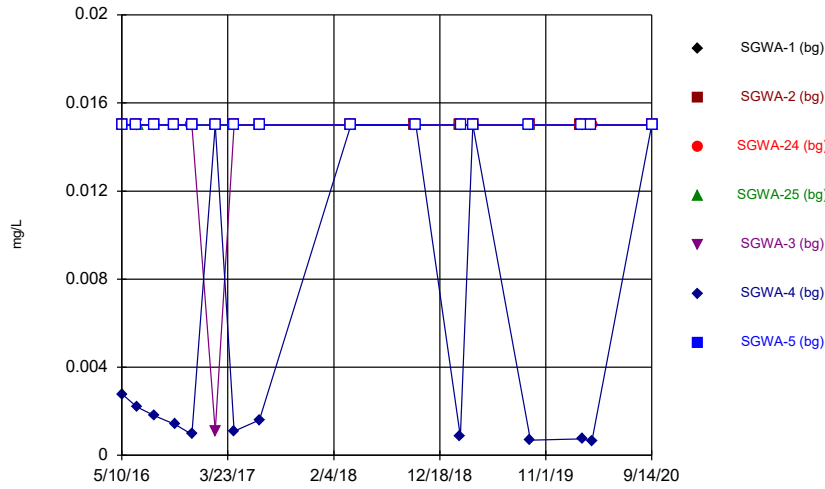
Constituent: Mercury Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



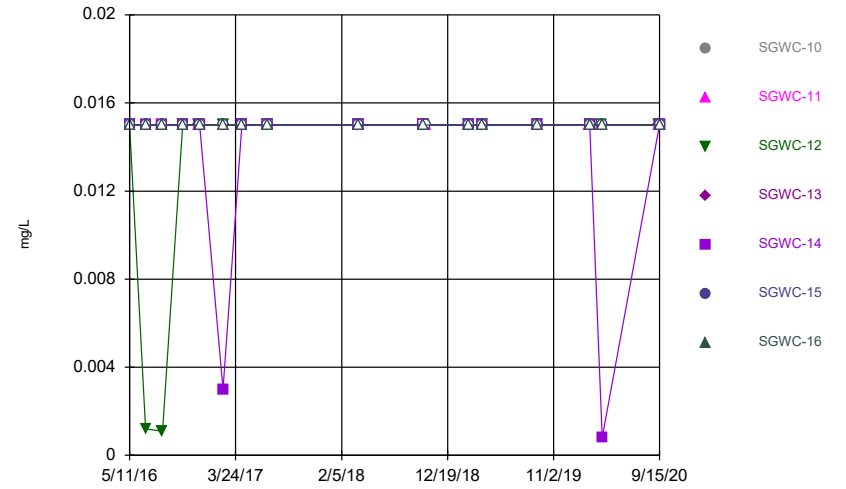
Constituent: Mercury Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



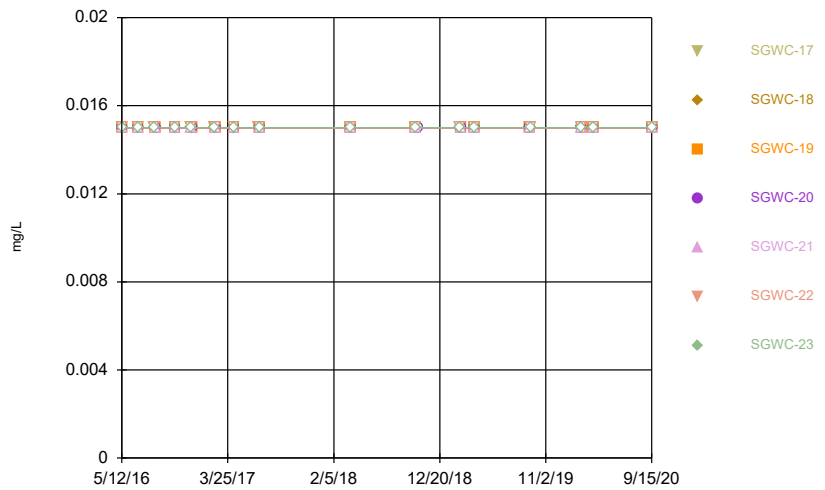
Constituent: Molybdenum Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



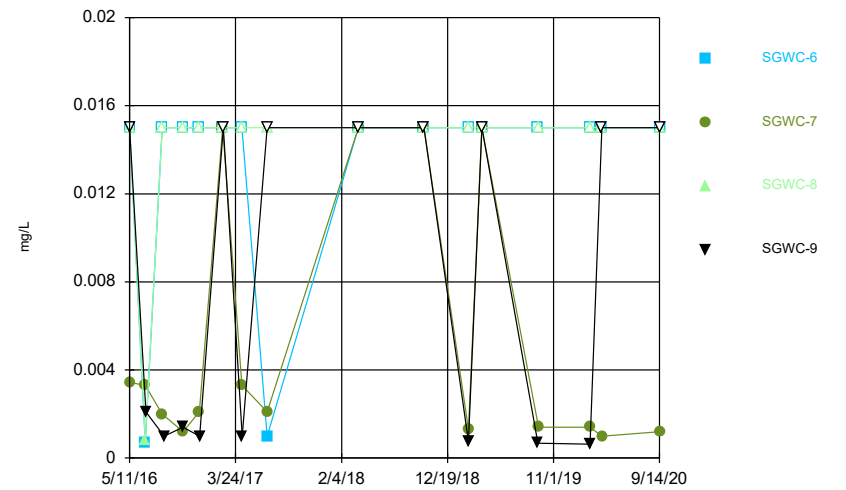
Constituent: Molybdenum Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



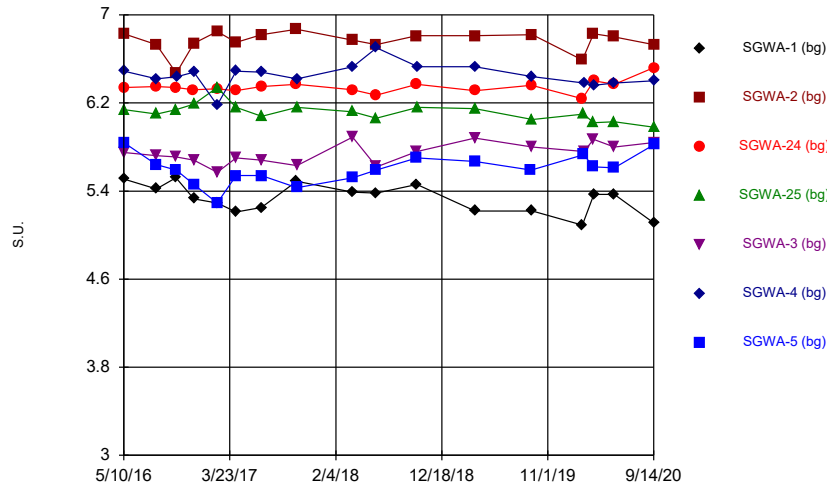
Constituent: Molybdenum Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



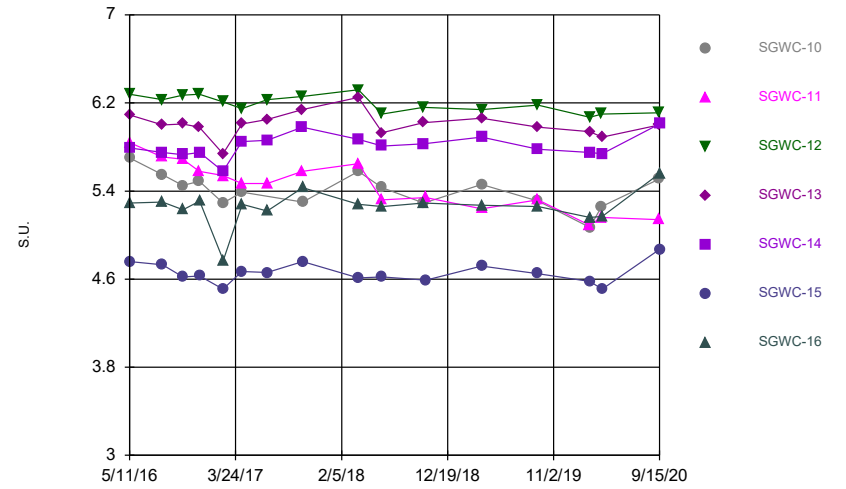
Constituent: Molybdenum Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



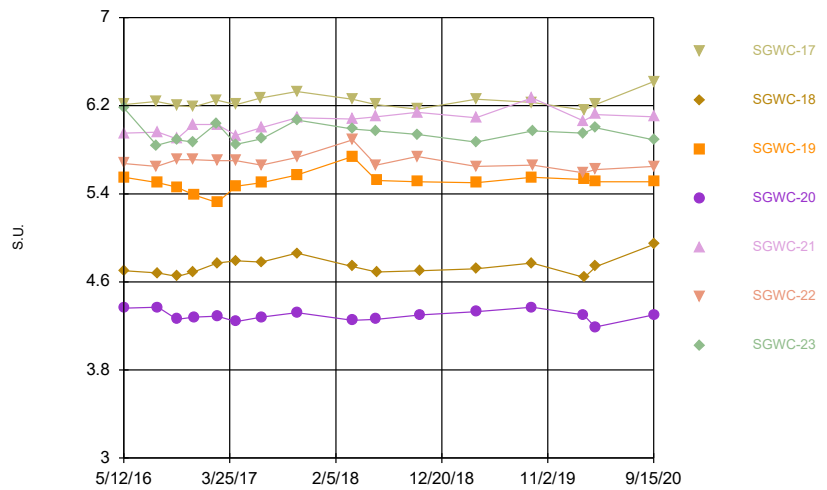
Constituent: pH Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



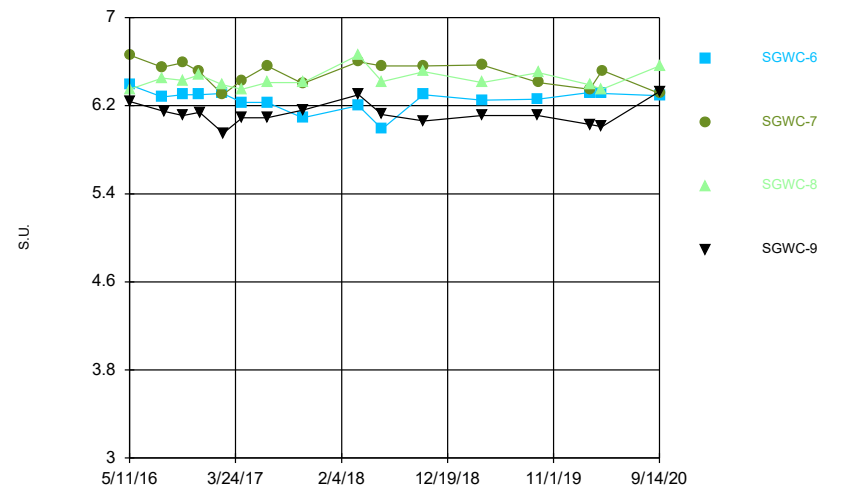
Constituent: pH Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



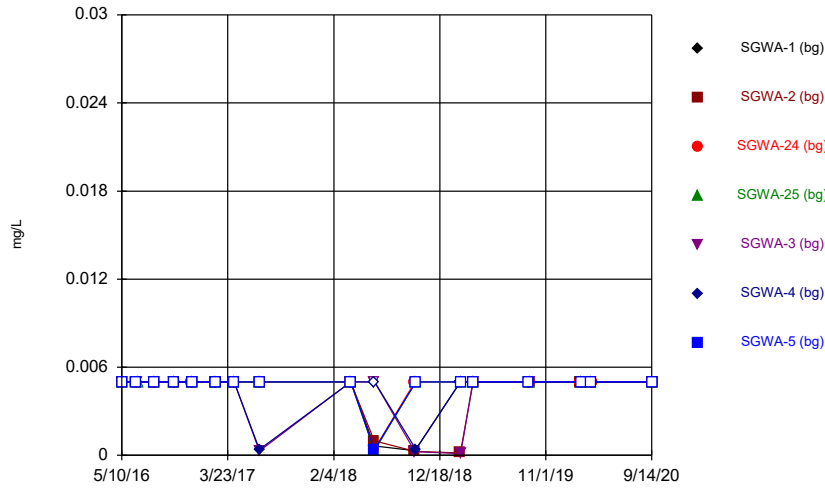
Constituent: pH Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



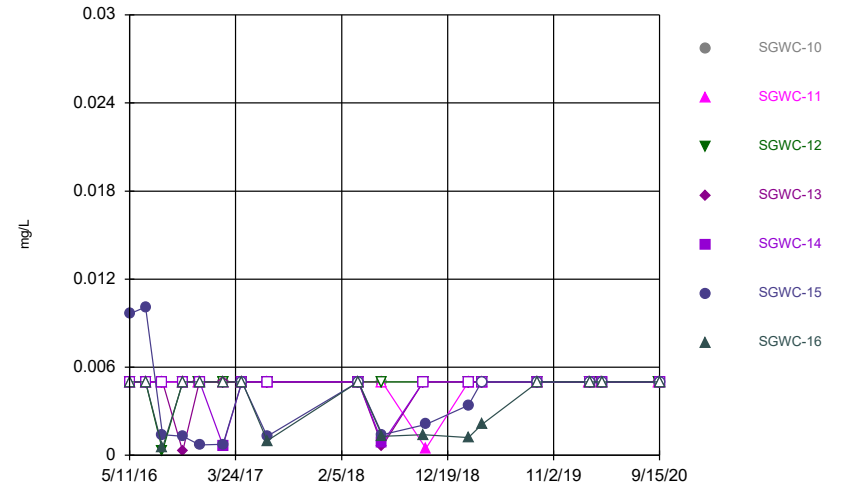
Constituent: pH Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



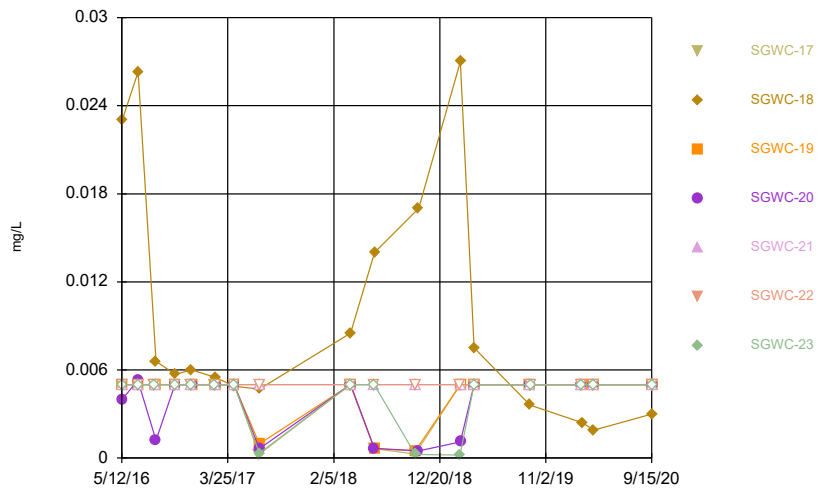
Constituent: Selenium Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



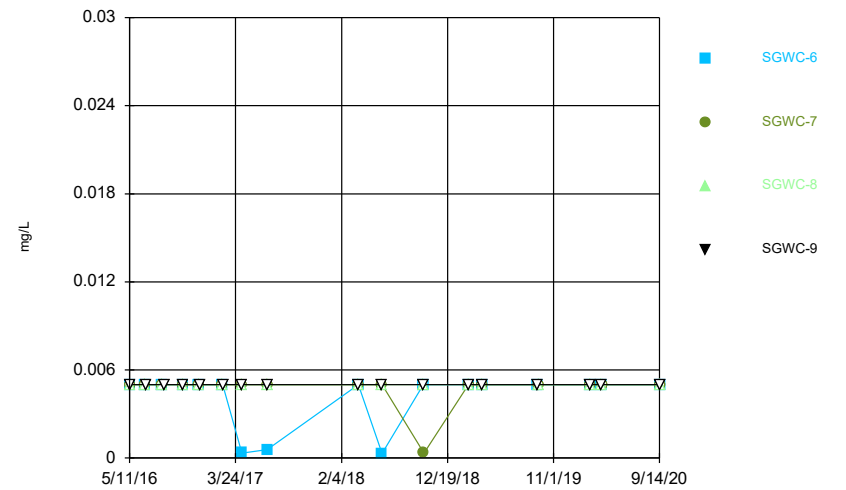
Constituent: Selenium Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



Constituent: Selenium Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

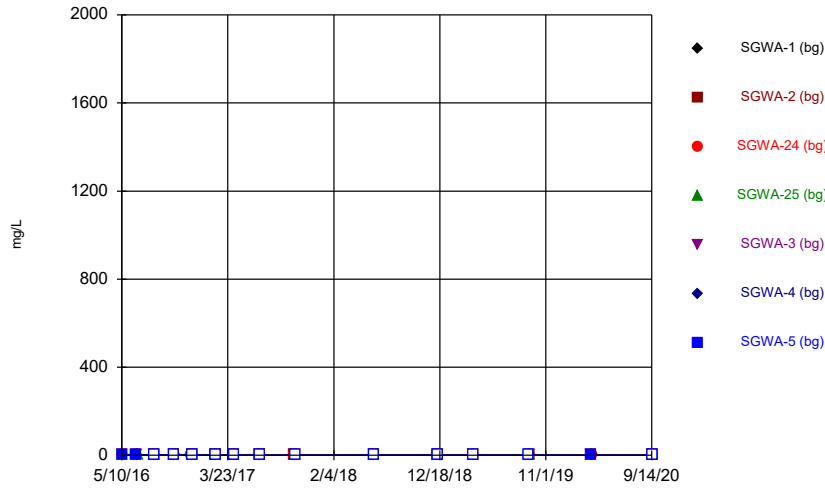
Time Series



Constituent: Selenium Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

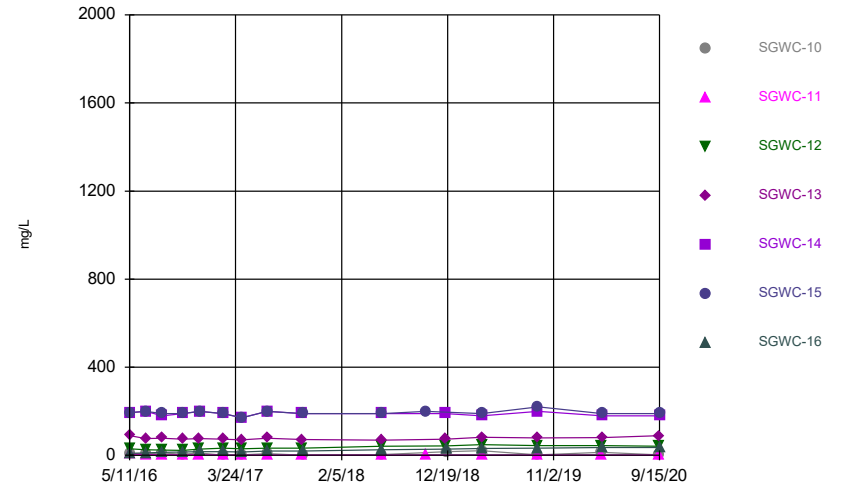


### Time Series



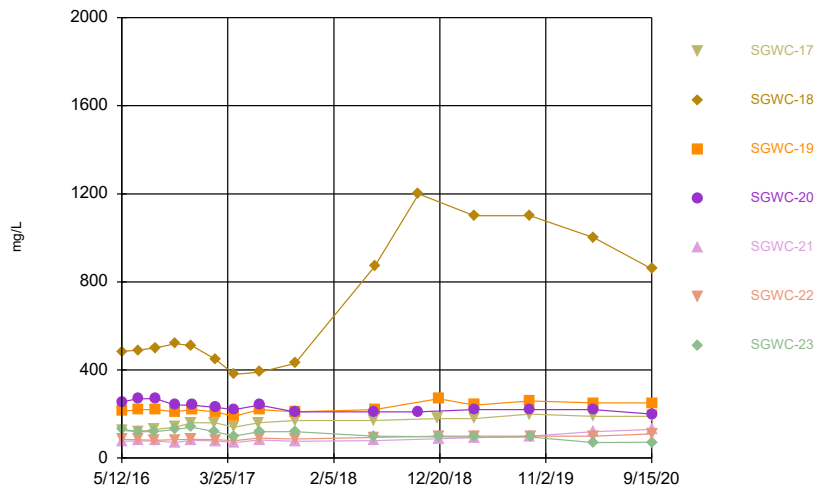
Constituent: Sulfate, total Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



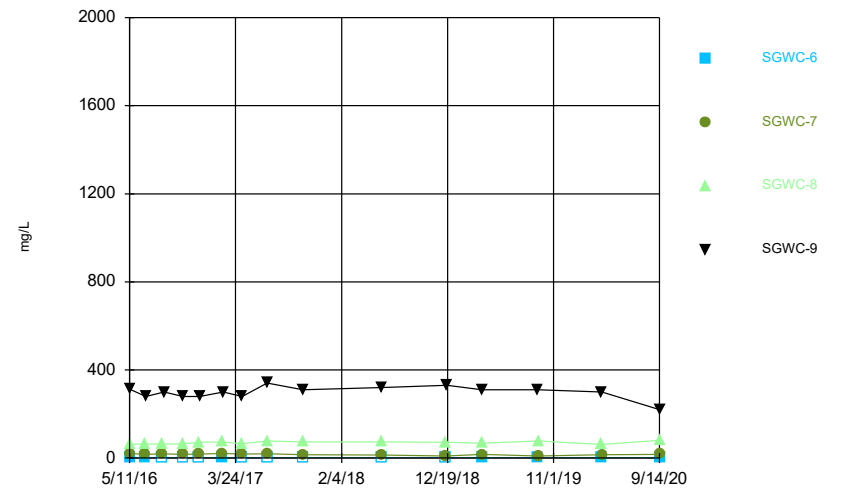
Constituent: Sulfate, total Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



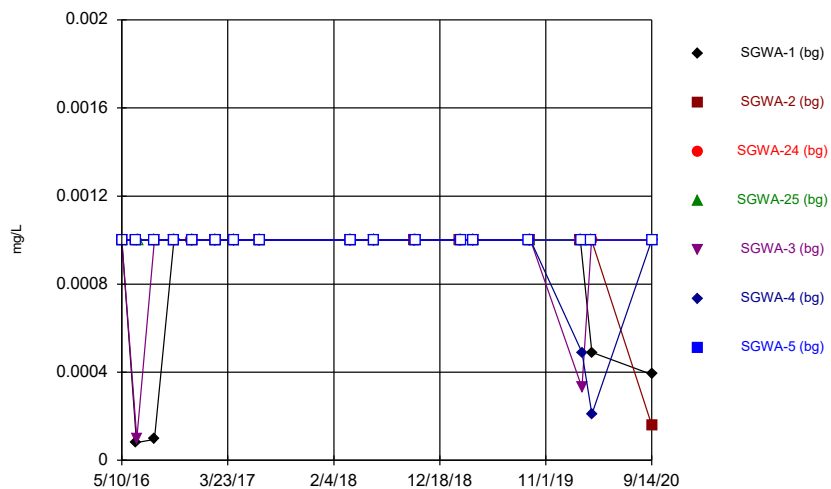
Constituent: Sulfate, total Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Time Series



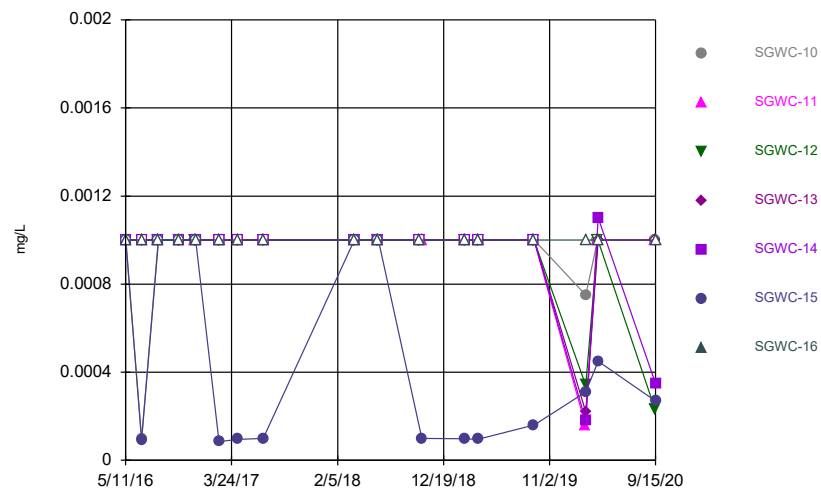
Constituent: Sulfate, total Analysis Run 1/6/2021 12:34 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



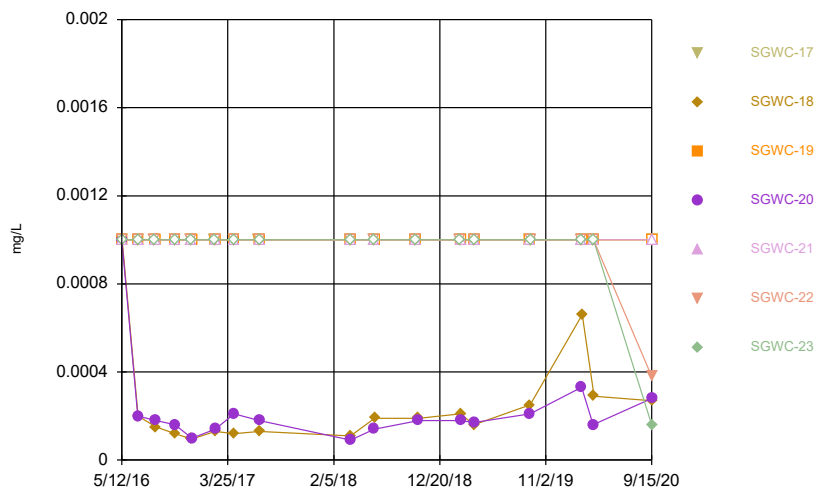
Constituent: Thallium Analysis Run 1/6/2021 12:34 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



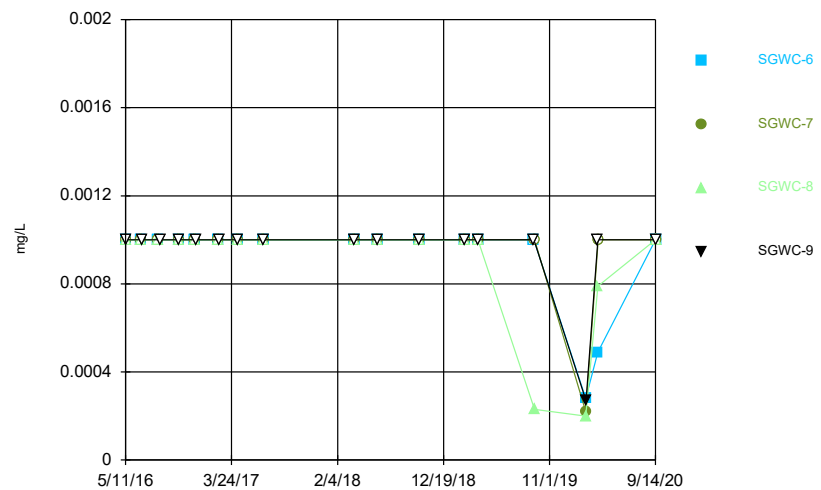
Constituent: Thallium Analysis Run 1/6/2021 12:35 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



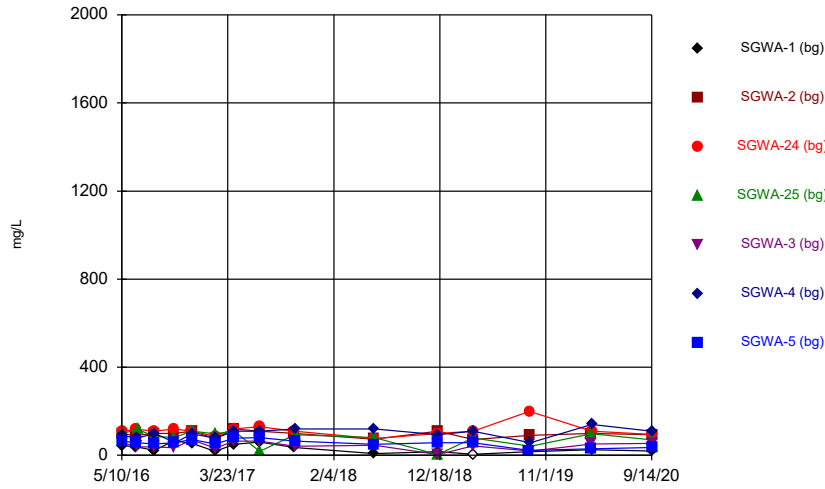
Constituent: Thallium Analysis Run 1/6/2021 12:35 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



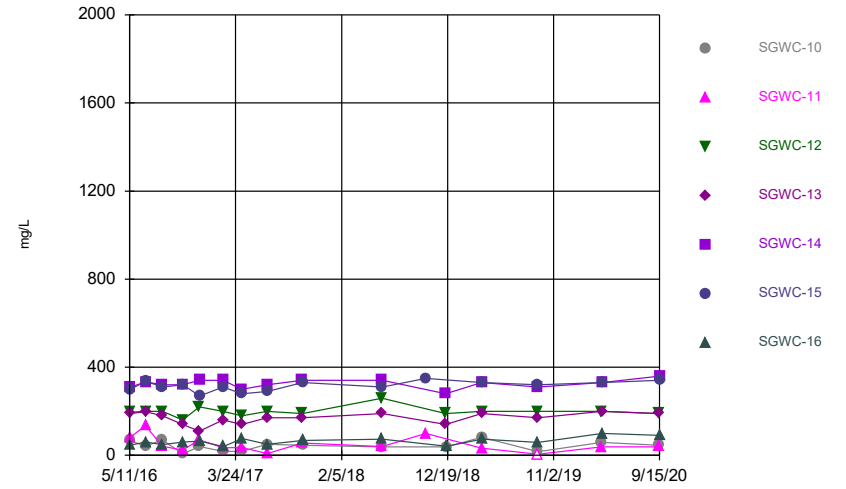
Constituent: Thallium Analysis Run 1/6/2021 12:35 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



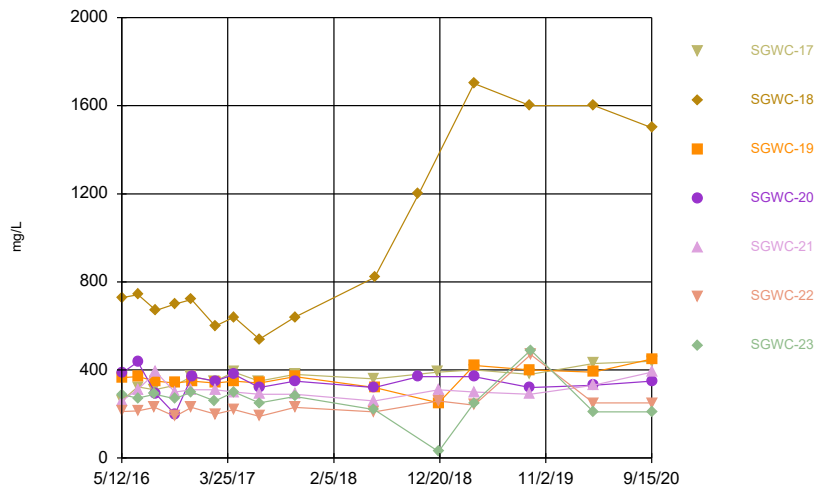
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/6/2021 12:35 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



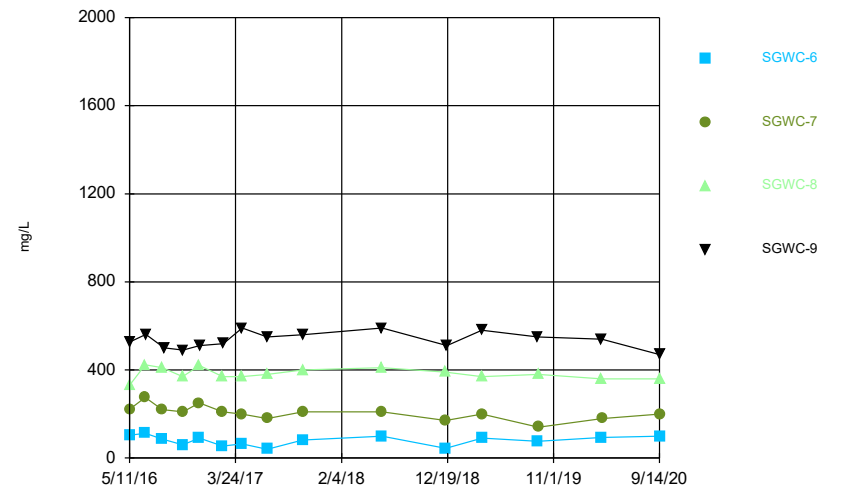
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/6/2021 12:35 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/6/2021 12:35 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/6/2021 12:35 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
5/11/2016						<0.002	
6/23/2016	0.0004 (J)	<0.002	0.0003 (J)				<0.002
6/24/2016					0.0021 (J)	0.0007 (J)	
6/27/2016				0.0003 (J)			
8/16/2016	0.0012 (J)	<0.002	<0.002		<0.002		<0.002
8/17/2016				<0.002		<0.002	
10/13/2016	<0.002		<0.002				
10/14/2016		<0.002		<0.002	<0.002		<0.002
10/17/2016						<0.002	
12/5/2016			<0.002				
12/6/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
2/14/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/10/2017			<0.002				
4/11/2017	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
6/26/2017	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
6/27/2017				<0.002			
3/26/2018	<0.002	<0.002	<0.002		<0.002		
3/27/2018				<0.002		<0.002	<0.002
10/5/2018	<0.002	<0.002	<0.002		<0.002		
10/8/2018				<0.002		<0.002	<0.002
2/18/2019	<0.002	<0.002				<0.002	
2/19/2019			<0.002	<0.002	<0.002		<0.002
3/28/2019				<0.002	<0.002	<0.002	<0.002
3/29/2019	<0.002	<0.002	<0.002				
2/13/2020	<0.002	<0.002	<0.002				
2/17/2020				<0.002			<0.002
2/18/2020					<0.002	<0.002	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.002	<0.002	<0.002				
5/12/2016				<0.002	<0.002	<0.002	<0.002
6/28/2016	0.0014 (J)	<0.002	<0.002	0.0004 (J)	<0.002	<0.002	<0.002
8/17/2016	<0.002	<0.002					
8/18/2016			<0.002	<0.002	<0.002	<0.002	<0.002
10/17/2016	<0.002	<0.002	<0.002	<0.002	<0.002		
10/18/2016						<0.002	<0.002
12/6/2016	<0.002	<0.002	<0.002	<0.002			
12/7/2016					<0.002	<0.002	<0.002
2/15/2017	<0.002	<0.002	<0.002	<0.002 (F1)	<0.002	<0.002	
2/16/2017							<0.002
4/12/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
4/13/2017							<0.002
6/27/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/8/2018			<0.002	<0.002	<0.002		<0.002
10/9/2018	<0.002						
2/20/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/18/2020		<0.002					
2/19/2020	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.002			<0.002	<0.002	<0.002	<0.002
5/13/2016		<0.002	<0.002				
6/29/2016	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
6/30/2016		0.0012 (J)					
8/18/2016	<0.002						
8/19/2016						<0.002	<0.002
8/22/2016		<0.002	<0.002	<0.002	<0.002		
10/18/2016			<0.002	<0.002	<0.002	<0.002	<0.002
10/19/2016	<0.002 (D)	<0.002					
12/7/2016	<0.002	<0.002			<0.002	<0.002	<0.002
12/8/2016			<0.002	<0.002			
2/15/2017	<0.002						<0.002
2/16/2017		<0.002	<0.002	<0.002	<0.002	<0.002	
4/13/2017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/27/2017	<0.002						
6/28/2017		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002						<0.002
3/28/2018		<0.002	<0.002	<0.002	<0.002	<0.002	
10/8/2018	<0.002				<0.002	<0.002	<0.002
10/9/2018			<0.002				
2/19/2019						<0.002	<0.002
2/20/2019	<0.002	<0.002	<0.002	<0.002	<0.002		
2/18/2020				<0.002	<0.002	<0.002	<0.002
2/19/2020	<0.002		<0.002				
2/20/2020		<0.002					

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.002	<0.002	<0.002	<0.002
6/27/2016	<0.002	0.0004 (J)	<0.002	
6/29/2016				<0.002
8/17/2016	<0.002	<0.002	<0.002	
8/22/2016				<0.002
10/17/2016	<0.002		<0.002	
10/18/2016		<0.002		<0.002
12/6/2016	<0.002	<0.002	<0.002	
12/7/2016				<0.002
2/14/2017	<0.002	<0.002	<0.002	
2/16/2017				<0.002
4/12/2017	<0.002	<0.002	<0.002	
4/13/2017				<0.002
6/27/2017	<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002	<0.002	<0.002	
3/28/2018				<0.002
10/8/2018	<0.002			
10/9/2018		<0.002	<0.002	<0.002
2/20/2019	<0.002	<0.002	<0.002	<0.002
2/18/2020	<0.002	<0.002	<0.002	
2/19/2020				<0.002





# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.001	0.00103 (J)	<0.001				
5/12/2016				<0.001	<0.001	<0.001	<0.001
6/28/2016	<0.001	0.0011 (J)	0.001 (J)	<0.001	<0.001	0.0026 (J)	<0.001
8/17/2016	<0.001	0.0011 (J)					
8/18/2016			0.00091 (J)	<0.001	<0.001	0.0015	<0.001
10/17/2016	<0.001	0.0011 (J)	<0.001	<0.001	<0.001		
10/18/2016						0.0019	<0.001
12/6/2016	<0.001	0.00072 (J)	<0.001	<0.001			
12/7/2016					<0.001	0.00079 (J)	<0.001
2/15/2017	0.0005 (J)	0.0011 (J)	0.00076 (J)	<0.001	<0.001	0.00073 (J)	
2/16/2017							<0.001
4/12/2017	<0.001	0.00076 (J)	0.00046 (J)	0.00047 (J)	0.00057 (J)	0.0009 (J)	
4/13/2017							<0.001
6/27/2017	0.00074 (J)	0.0011 (J)	0.0011 (J)	0.00088 (J)	0.00058 (J)	0.0011 (J)	0.00055 (J)
3/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/6/2018	<0.001	<0.001	<0.001				
6/7/2018				<0.001	<0.001	<0.001	<0.001
10/8/2018			0.0007 (J)	0.00069 (J)	0.0007 (J)		0.00054 (J)
10/9/2018	<0.001						
10/16/2018		<0.001				<0.001	
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	0.00075 (J)	<0.001
4/1/2019	0.00059 (J)	0.0011 (J)	0.0012 (J)	0.0014	0.0012 (J)	0.0016	
4/2/2019							<0.001
9/16/2019		<0.001	<0.001				
9/17/2019	<0.001			<0.001	<0.001	0.0008 (J)	<0.001
2/18/2020		<0.001					
2/19/2020	<0.001		0.00032 (J)	<0.001	<0.001	0.001	<0.001
3/25/2020	<0.001	<0.001					
3/26/2020			0.00032 (J)				
3/27/2020				<0.001	0.0014	0.0016	<0.001
9/14/2020	<0.001	<0.001	<0.001	<0.001			
9/15/2020					<0.001	0.0014	<0.001

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.001			<0.001	<0.001	<0.001	<0.001
5/13/2016		0.00161 (J)	<0.001				
6/29/2016	<0.001		<0.001	0.0018 (J)	<0.001	<0.001	<0.001
6/30/2016		0.004 (J)					
8/18/2016	<0.001						
8/19/2016						<0.001	<0.001
8/22/2016		0.0012 (J)	<0.001	0.001 (J)	<0.001		
10/18/2016			<0.001	0.00085 (J)	<0.001	<0.001	<0.001
10/19/2016	0.001045 (JD)	0.0019					
12/7/2016	<0.001	0.0012 (J)			<0.001	<0.001	<0.001
12/8/2016			<0.001	<0.001			
2/15/2017	0.00059 (J)						<0.001
2/16/2017		0.00086 (J)	<0.001	<0.001	<0.001	<0.001	
4/13/2017	0.00066 (J)	0.00058 (J)	<0.001	<0.001	<0.001	0.0006 (J)	0.00061 (J)
6/27/2017	0.00075 (J)						
6/28/2017		0.0011 (J)	0.00068 (J)	0.00094 (J)	0.00076 (J)	0.00089 (J)	0.00079 (J)
3/27/2018	<0.001						<0.001
3/28/2018		0.0015	<0.001	<0.001	<0.001	<0.001	
6/7/2018	<0.001			<0.001	<0.001	<0.001	<0.001
6/8/2018		0.002	<0.001				
10/8/2018	0.00075 (J)				<0.001	<0.001	<0.001
10/9/2018			0.00058 (J)				
10/18/2018		0.0031		<0.001 (D)			
2/19/2019						<0.001	<0.001
2/20/2019	<0.001	0.003	<0.001	<0.001	<0.001		
4/2/2019	<0.001	0.0027	<0.001	<0.001	<0.001	<0.001	<0.001
9/17/2019	<0.001	0.0029	<0.001	0.00037 (J)	<0.001		
9/18/2019						0.00035 (J)	<0.001
2/18/2020				0.00032 (J)	<0.001	0.00034 (J)	<0.001
2/19/2020	<0.001		<0.001				
2/20/2020		0.0031					
3/23/2020			<0.001	0.0005 (J)	<0.001		
3/24/2020	<0.001					<0.001	<0.001
3/26/2020		0.0047					
9/15/2020	<0.001	0.0045	<0.001	0.00051 (J)	<0.001	<0.001	<0.001

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.001	<0.001	<0.001	<0.001
6/27/2016	<0.001	0.0009 (J)	<0.001	
6/29/2016				0.0009 (J)
8/17/2016	<0.001	0.0006 (J)	<0.001	
8/22/2016				<0.001
10/17/2016	<0.001		<0.001	
10/18/2016		<0.001		0.00074 (J)
12/6/2016	<0.001	<0.001	<0.001	
12/7/2016				0.00079 (J)
2/14/2017	0.0006 (J)	0.00059 (J)	0.0005 (J)	
2/16/2017				0.00056 (J)
4/12/2017	0.00046 (J)	0.00058 (J)	<0.001	
4/13/2017				0.00079 (J)
6/27/2017	<0.001	<0.001	0.00076 (J)	0.0011 (J)
3/27/2018	<0.001	<0.001	<0.001	
3/28/2018				<0.001
6/6/2018	<0.001	<0.001	<0.001	<0.001
10/8/2018	<0.001			
10/9/2018		0.00057 (J)	0.00053 (J)	0.00068 (J)
2/20/2019	<0.001	<0.001	<0.001	<0.001
4/1/2019		<0.001	0.001 (J)	<0.001
4/2/2019	<0.001			
9/16/2019	<0.001			<0.001
9/17/2019		<0.001	0.00035 (J)	
2/18/2020	<0.001	<0.001	<0.001	
2/19/2020				0.00039 (J)
3/25/2020	0.00044 (J)		0.00063 (J)	<0.001
3/26/2020		<0.001		
9/14/2020	<0.001	<0.001	<0.001	<0.001

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.0663	0.0409	0.0214	0.0253	0.036		0.0112
5/11/2016						0.0484	
6/23/2016	0.055	0.0342	0.0204				0.0101
6/24/2016					0.0343	0.0471	
6/27/2016				0.0253			
8/16/2016	0.048	0.034	0.018		0.029		0.0088
8/17/2016				0.021		0.046	
10/13/2016	0.061		0.022				
10/14/2016		0.041		0.023	0.034		0.01
10/17/2016						0.049	
12/5/2016			0.023				
12/6/2016	0.053	0.042		0.02	0.033	0.047	0.011
2/14/2017	0.046	0.035	0.021	0.018	0.032	0.05	0.01
4/10/2017			0.021				
4/11/2017	0.046	0.037		0.021	0.033	0.053	0.01
6/26/2017	0.048	0.037	0.022		0.036	0.058	0.011
6/27/2017				0.024			
3/26/2018	0.053	0.036	0.022		0.035		
3/27/2018				0.024		0.061	0.01
6/5/2018	0.058	0.038	0.022	0.024			0.011
6/6/2018					0.036	0.058	
10/5/2018	0.058	0.036	0.024		0.035		
10/8/2018				0.024		0.064	0.011
2/18/2019	0.046	0.035				0.057	
2/19/2019			0.019	0.022	0.033		0.0094
3/28/2019				0.022	0.036	0.061	0.0097
3/29/2019	0.044	0.039	0.021				
9/12/2019							0.012
9/13/2019			0.025				
9/16/2019	0.048	0.045		0.028	0.041	0.068	
2/13/2020	0.042	0.043	0.025				
2/17/2020				0.026			0.01
2/18/2020					0.04	0.069	
3/17/2020		0.039		0.025	0.037		0.01
3/18/2020	0.046		0.023			0.071	
9/14/2020	0.043	0.038	0.024	0.026	0.039	0.068	0.011

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/6/2021 12:36 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.0294	0.038	0.0324				
5/12/2016				0.0198	0.067	0.041	0.0163
6/28/2016	0.0293	0.0363	0.0321	0.0208	0.0668	0.0435	0.0165
8/17/2016	0.029	0.033					
8/18/2016			0.03	0.022	0.06	0.043	0.017
10/17/2016	0.027	0.035	0.032	0.024	0.06		
10/18/2016						0.041	0.017
12/6/2016	0.03	0.035	0.032	0.025			
12/7/2016					0.063	0.042	0.017
2/15/2017	0.025	0.036	0.036	0.026	0.061	0.038	
2/16/2017							0.017
4/12/2017	0.028	0.038	0.037	0.029	0.062	0.038	
4/13/2017							0.019
6/27/2017	0.034	0.042	0.042	0.031	0.06	0.041	0.02
3/27/2018	0.031	0.039	0.043	0.029	0.055	0.035	0.021
6/6/2018	0.027	0.041	0.048				
6/7/2018				0.032	0.057	0.035	0.022
10/8/2018			0.049	0.033	0.053		0.025
10/9/2018	0.032						
10/16/2018		0.037 (D)				0.031 (D)	
2/20/2019	0.036	0.044	0.054	0.041	0.053	0.036	0.027
4/1/2019	0.039	0.041	0.051	0.038	0.054	0.034	
4/2/2019							0.023
9/16/2019		0.045	0.052				
9/17/2019	0.029			0.036	0.048	0.034	0.029
2/18/2020		0.044					
2/19/2020	0.027		0.053	0.033	0.047	0.031	0.029
3/25/2020	0.036	0.046					
3/26/2020			0.051				
3/27/2020				0.034	0.049	0.028	0.027
9/14/2020	0.027	0.042	0.057	0.039			
9/15/2020					0.05	0.031	0.031

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.0157			0.0436	0.0914	0.1	0.0959
5/13/2016		0.0138	0.0507				
6/29/2016	0.0161 (J)		0.0485	0.0466	0.0933	0.0991	0.0957
6/30/2016		0.0145 (J)					
8/18/2016	0.016						
8/19/2016						0.096	0.093
8/22/2016		0.014	0.044	0.038	0.086		
10/18/2016			0.042	0.039	0.093	0.096	0.093
10/19/2016	0.021 (D)	0.016					
12/7/2016	0.018	0.015			0.096	0.09	0.09
12/8/2016			0.045	0.038			
2/15/2017	0.02						0.09
2/16/2017		0.013	0.04	0.034	0.091	0.091	
4/13/2017	0.019	0.012	0.037	0.028	0.088	0.091	0.081
6/27/2017	0.019						
6/28/2017		0.012	0.04	0.03	0.094	0.1	0.085
3/27/2018	0.02						0.076
3/28/2018		0.029	0.034	0.027	0.09	0.084	
6/7/2018	0.02			0.029	0.092	0.084	0.082
6/8/2018		0.032	0.035				
10/8/2018	0.021				0.092	0.084	0.077
10/9/2018			0.037				
10/18/2018		0.033 (D)		0.027 (D)			
2/19/2019						0.075	0.064
2/20/2019	0.023	0.034	0.036	0.03	0.1		
4/2/2019	0.02	0.028	0.03	0.023	0.087	0.076	0.068
9/17/2019	0.025	0.026	0.035	0.025	0.097		
9/18/2019						0.078	0.068
2/18/2020				0.023	0.11	0.085	0.065
2/19/2020	0.022		0.034				
2/20/2020		0.023					
3/23/2020			0.032	0.024	0.1		
3/24/2020	0.024					0.081	0.065
3/26/2020		0.02					
9/15/2020	0.025	0.02	0.034	0.024	0.13	0.083	0.064

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	0.0933	0.295	0.251	0.0494
6/27/2016	0.101	0.353	0.205	
6/29/2016				0.0535
8/17/2016	0.094	0.29	0.16	
8/22/2016				0.049
10/17/2016	0.11		0.17	
10/18/2016		0.29		0.049
12/6/2016	0.11	0.31	0.16	
12/7/2016				0.048
2/14/2017	0.056	0.3	0.18	
2/16/2017				0.056
4/12/2017	0.048	0.3	0.18	
4/13/2017				0.063
6/27/2017	0.058	0.36	0.18	0.067
3/27/2018	0.021	0.27	0.17	
3/28/2018				0.069
6/6/2018	0.014	0.24	0.18	0.069
10/8/2018	0.069			
10/9/2018		0.28	0.17	0.077
2/20/2019	0.052	0.28	0.2	0.077
4/1/2019		0.24	0.19	0.071
4/2/2019	0.069			
9/16/2019	0.13			0.077
9/17/2019		0.23	0.19	
2/18/2020	0.083	0.25	0.17	
2/19/2020				0.065
3/25/2020	0.12		0.19	0.066
3/26/2020		0.23		
9/14/2020	0.14	0.27	0.18	0.059





# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.0025	<0.0025	<0.0025				
5/12/2016				<0.0025	<0.0025	<0.0025	<0.0025
6/28/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025
8/17/2016	<0.0025	<0.0025					
8/18/2016			<0.0025	<0.0025	<0.0025	0.00037 (J)	<0.0025
10/17/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/18/2016						<0.0025	<0.0025
12/6/2016	<0.0025	<0.0025	<0.0025	<0.0025			
12/7/2016					<0.0025	<0.0025	<0.0025
2/15/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00037 (J)	
2/16/2017							<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00035 (J)	
4/13/2017							<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0004 (J)	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00041 (J)	<0.0025
6/6/2018	<0.0025	<0.0025	<0.0025				
6/7/2018				<0.0025	<0.0025	0.00038 (J)	<0.0025
10/8/2018			<0.0025	<0.0025	<0.0025		<0.0025
10/9/2018	<0.0025						
10/16/2018		<0.0025 (D)				0.0004 (JD)	
2/20/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00042 (J)	<0.0025
4/1/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00034 (J)	
4/2/2019							<0.0025
9/16/2019		<0.0025	<0.0025				
9/17/2019	<0.0025			<0.0025	<0.0025	0.00046 (J)	<0.0025
2/18/2020		<0.0025					
2/19/2020	0.00026 (J)		<0.0025	<0.0025	<0.0025	0.00045 (J)	<0.0025
3/25/2020	<0.0025	<0.0025					
3/26/2020			<0.0025				
3/27/2020				<0.0025	0.00053 (J)	0.00059 (J)	<0.0025
9/14/2020	<0.0025	<0.0025	<0.0025	<0.0025			
9/15/2020					0.0002 (J)	0.00053 (J)	<0.0025

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.0025			0.000742 (J)	<0.0025	<0.0025	<0.0025
5/13/2016		<0.0025	<0.0025				
6/29/2016	<0.0025		0.0002 (J)	0.0007 (J)	<0.0025	<0.0025	<0.0025
6/30/2016		0.0003 (J)					
8/18/2016	<0.0025						
8/19/2016						<0.0025	<0.0025
8/22/2016		<0.0025	<0.0025	0.00074 (J)	<0.0025		
10/18/2016			<0.0025	0.00075 (J)	<0.0025	<0.0025	<0.0025
10/19/2016	<0.0025 (D)	<0.0025					
12/7/2016	<0.0025	<0.0025			<0.0025	<0.0025	<0.0025
12/8/2016			<0.0025	0.00093 (J)			
2/15/2017	<0.0025						<0.0025
2/16/2017		<0.0025	<0.0025	0.00091 (J)	<0.0025	<0.0025	
4/13/2017	<0.0025	<0.0025	<0.0025	0.00065 (J)	<0.0025	<0.0025	<0.0025
6/27/2017	<0.0025						
6/28/2017		<0.0025	<0.0025	0.00073 (J)	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025						<0.0025
3/28/2018		0.00036 (J)	<0.0025	0.00079 (J)	<0.0025	<0.0025	
6/7/2018	<0.0025			0.00086 (J)	<0.0025	<0.0025	<0.0025
6/8/2018		0.00035 (J)	<0.0025				
10/8/2018	<0.0025				<0.0025	<0.0025	<0.0025
10/9/2018			<0.0025				
10/18/2018		<0.0025 (D)		0.00079 (JD)			
2/19/2019						<0.0025	<0.0025
2/20/2019	<0.0025	0.00033 (J)	0.00016 (J)	0.00077 (J)	<0.0025		
4/2/2019	<0.0025	<0.0025	<0.0025	0.00043 (J)	<0.0025	<0.0025	<0.0025
9/17/2019	<0.0025	0.00035 (J)	<0.0025	0.00057 (J)	<0.0025		
9/18/2019						<0.0025	<0.0025
2/18/2020				0.00052 (J)	<0.0025	<0.0025	<0.0025
2/19/2020	<0.0025		<0.0025				
2/20/2020		0.00049 (J)					
3/23/2020			<0.0025	0.00077 (J)	<0.0025		
3/24/2020	<0.0025					<0.0025	<0.0025
3/26/2020		0.00033 (J)					
9/15/2020	<0.0025	0.0003 (J)	0.00018 (J)	0.00078 (J)	<0.0025	0.00033 (J)	<0.0025

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.0025	<0.0025	<0.0025	<0.0025
6/27/2016	<0.0025	<0.0025	<0.0025	
6/29/2016				<0.0025
8/17/2016	<0.0025	<0.0025	<0.0025	
8/22/2016				<0.0025
10/17/2016	<0.0025		<0.0025	
10/18/2016		<0.0025		<0.0025
12/6/2016	<0.0025	<0.0025	<0.0025	
12/7/2016				<0.0025
2/14/2017	<0.0025	<0.0025	<0.0025	
2/16/2017				<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	
4/13/2017				<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	
3/28/2018				<0.0025
6/6/2018	<0.0025	<0.0025	<0.0025	<0.0025
10/8/2018	<0.0025			
10/9/2018		<0.0025	<0.0025	<0.0025
2/20/2019	<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019		<0.0025	<0.0025	<0.0025
4/2/2019	<0.0025			
9/16/2019	<0.0025			<0.0025
9/17/2019		<0.0025	0.00019 (J)	
2/18/2020	<0.0025	<0.0025	<0.0025	
2/19/2020				<0.0025
3/25/2020	0.0002 (J)		0.0003 (J)	<0.0025
3/26/2020		<0.0025		
9/14/2020	<0.0025	<0.0025	<0.0025	<0.0025



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.0275 (J)	0.242	<0.08				
5/12/2016				0.599	1.38	1.57	0.562
6/28/2016	0.035 (J)	0.245	0.0054 (J)	0.52	1.29	1.36	0.546
8/17/2016	0.028 (J)	0.26					
8/18/2016			<0.08	0.51	1.3	1.5	0.54
10/17/2016	0.032 (J)	0.25	<0.08	0.58	1.6		
10/18/2016						1.9	0.55
12/6/2016	<0.08	0.27	<0.08	0.5			
12/7/2016					1.5	1.5	0.56
2/15/2017	0.035 (J)	0.28	<0.08	0.5	1.5	1.5	
2/16/2017							0.58
4/12/2017	0.052	0.29	<0.08	0.47	1.4	1.7	
4/13/2017							0.56
6/27/2017	<0.08	0.29	<0.08	0.51	1.6	1.7	0.56
10/11/2017		0.31	<0.08	0.49	1.5		
10/12/2017	0.049 (J)					1.6	0.57
6/6/2018	0.07	0.37	<0.08				
6/7/2018				0.45	1.6	1.7	0.59
10/16/2018		0.35 (D)				1.5 (D)	
12/14/2018			<0.08	0.47	1.4		
12/17/2018	0.098						0.55
4/1/2019	0.16	0.46	<0.08	0.57	1.7	1.6	
4/2/2019							0.53
9/16/2019		0.39	<0.08				
9/17/2019	0.077			0.43	1.4	1.4	0.55
3/25/2020	0.12	0.45					
3/26/2020			<0.08				
3/27/2020				0.49	1.5	1.4	0.59
9/14/2020	0.082	0.43	<0.08	0.49			
9/15/2020					1.5	1.4	0.57

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.195			1.99	1.4	0.411	0.691
5/13/2016		3.71	1.87				
6/29/2016	0.198 (J)		1.67	1.88	1.25	0.373 (J)	0.557
6/30/2016		3.8					
8/18/2016	0.24						
8/19/2016						0.37	0.58
8/22/2016		3.3	1.7	2	1.3		
10/18/2016			2.1	2.5	1.7	0.41	0.68
10/19/2016	0.37 (D)	4.5					
12/7/2016	0.4	4.8			1.3	0.36	0.6
12/8/2016			1.7	1.9			
2/15/2017	0.38						0.82
2/16/2017		3.9	2.3	2.3	1.4	0.38 (J)	
4/13/2017	0.34	3.8	1.9	2	1.4	0.4	0.54
6/27/2017	0.33						
6/28/2017		3.6	1.9	2.3	1.4	0.35	0.59
10/12/2017	0.47	3.9	1.9	2.6	1.4	0.4	0.54
6/7/2018	0.35			2.1	1.4	0.41	0.71
6/8/2018		4.3	1.8				
10/18/2018		4.9 (D)		2.3 (D)			
12/14/2018	0.44						
12/17/2018			1.8		1.2	0.4	0.6
4/2/2019	0.32	5.3	2	2	1.2	0.44	0.52
9/17/2019	0.43	5	1.8	1.8	1.1		
9/18/2019						0.52	0.54
3/23/2020			1.7	1.9	0.83		
3/24/2020	0.37					0.34	0.55
3/26/2020		6					
9/15/2020	0.38	6.2	1.9	1.8	1.2	0.5	0.38

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.08	0.0359 (J)	0.0678 (J)	1.54
6/27/2016	0.0051 (J)	0.0354 (J)	0.0767 (J)	
6/29/2016				1.52
8/17/2016	<0.08	0.039 (J)	0.067	
8/22/2016				1.6
10/17/2016	<0.08		0.059	
10/18/2016		0.039 (J)		2.4
12/6/2016	<0.08	0.03 (J)	0.054	
12/7/2016				1.6
2/14/2017	<0.08	0.031 (J)	0.063	
2/16/2017				1.6
4/12/2017	<0.08	0.039 (J)	0.068	
4/13/2017				1.7
6/27/2017	<0.08	0.028 (J)	0.067	1.8
10/11/2017	<0.08	0.026 (J)		
10/12/2017			0.075	1.8
6/6/2018	<0.08	<0.08	0.059	1.8
12/14/2018	<0.08	<0.08	0.064	
12/17/2018				1.6
4/1/2019		0.025 (J)	0.076	1.7
4/2/2019	<0.08			
9/16/2019	0.04 (J)			1.6
9/17/2019		<0.08	0.11	
3/25/2020	<0.08		0.089	1.6
3/26/2020		0.055 (J)		
9/14/2020	<0.08	<0.08	0.1	1.7





# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.0025	<0.0025	<0.0025				
5/12/2016				<0.0025	0.000136 (J)	0.000265 (J)	<0.0025
6/28/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025
8/17/2016	<0.0025	<0.0025					
8/18/2016			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/17/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/18/2016						<0.0025	<0.0025
12/6/2016	<0.0025	<0.0025	<0.0025	<0.0025			
12/7/2016					<0.0025	<0.0025	<0.0025
2/15/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00044 (J)	
2/16/2017							<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
4/13/2017							<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/8/2018			<0.0025	<0.0025	<0.0025		<0.0025
10/9/2018	<0.0025						
10/16/2018		<0.0025				<0.0025	
2/20/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00033 (J)	<0.0025
4/1/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
4/2/2019							<0.0025
9/16/2019		<0.0025	<0.0025				
9/17/2019	<0.0025			<0.0025	<0.0025	0.00034 (J)	<0.0025
2/18/2020		<0.0025					
2/19/2020	<0.0025		<0.0025	<0.0025	<0.0025	0.0003 (J)	<0.0025
3/25/2020	<0.0025	<0.0025					
3/26/2020			<0.0025				
3/27/2020				<0.0025	0.00057 (J)	0.00042 (J)	<0.0025
9/14/2020	<0.0025	<0.0025	<0.0025	<0.0025			
9/15/2020					<0.0025	0.00032 (J)	<0.0025



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.0025	<0.0025	<0.0025	<0.0025
6/27/2016	<0.0025	<0.0025	<0.0025	
6/29/2016				<0.0025
8/17/2016	<0.0025	<0.0025	<0.0025	
8/22/2016				<0.0025
10/17/2016	<0.0025		<0.0025	
10/18/2016		<0.0025		<0.0025
12/6/2016	<0.0025	<0.0025	<0.0025	
12/7/2016				<0.0025
2/14/2017	<0.0025	<0.0025	<0.0025	
2/16/2017				<0.0025
4/12/2017	<0.0025	<0.0025	<0.0025	
4/13/2017				<0.0025
6/27/2017	<0.0025	<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025	<0.0025	<0.0025	
3/28/2018				<0.0025
10/8/2018	<0.0025			
10/9/2018		<0.0025	<0.0025	<0.0025
2/20/2019	<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019		<0.0025	<0.0025	<0.0025
4/2/2019	<0.0025			
9/16/2019	<0.0025			<0.0025
9/17/2019		<0.0025	<0.0025	
2/18/2020	<0.0025	<0.0025	<0.0025	
2/19/2020				<0.0025
3/25/2020	0.00022 (J)		0.00031 (J)	<0.0025
3/26/2020		<0.0025		
9/14/2020	<0.0025	<0.0025	<0.0025	<0.0025

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	3	10.1	12.3	11.4	6.22		2.64
5/11/2016						14.4	
6/23/2016	2.42	8.45	11.3				1.65
6/24/2016					5.55	14.2	
6/27/2016				9.16			
8/16/2016	2.1	9.4	11		5		1.3
8/17/2016				9.6		15	
10/13/2016	2.7		12				
10/14/2016		10		11	5.4		1.4
10/17/2016						16	
12/5/2016			12				
12/6/2016	2.1	10		11	4.8	15	1.4
2/14/2017	1.8	11	13	12	4.6	17	1.4
4/10/2017			12				
4/11/2017	1.8	10		11	5	17	1.4
6/26/2017	1.7 (D)	10 (D)	13 (D)		4.9 (D)	18 (D)	1.5 (D)
6/27/2017				9.5 (D)			
10/10/2017	2.3	11	14				
10/11/2017				11	5.5	19	1.6
6/5/2018	2.6	11	13	9.7			1.5
6/6/2018					4.1	18	
12/13/2018	1.7	10	12	9.4	4.3	18	1.4
3/28/2019				8.7	4.8	17	1.4
3/29/2019	2	11	12				
9/12/2019							1.6
9/13/2019			14				
9/16/2019	1.7	12		9.5	5.9	18	
3/17/2020		11		8.8	5.3		1.7
3/18/2020	1.8		14			18	
9/14/2020	1.6	11	14	9.1	5.7	17	1.6

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	4.14	2.91	23.1				
5/12/2016				16.6	37.7	14.5	0.75
6/28/2016	3.13	2.19	21	14.4	35.8	14.7	0.768
8/17/2016	4.1	1.9					
8/18/2016			20	15	37	15	0.7
10/17/2016	4.2	2	21	15	37		
10/18/2016						16	0.75
12/6/2016	4.3	1.9	21	14			
12/7/2016					38	15	0.73
2/15/2017	1.5	1.9	23	17	45	17	
2/16/2017							0.81
4/12/2017	2.2	1.9	23	16	39	14	
4/13/2017							0.88
6/27/2017	3.1 (D)	1.9 (D)	22 (D)	15 (D)	38 (D)	16 (D)	0.76 (D)
10/11/2017		2	23	16	44		
10/12/2017	1.2					17	1.1
6/6/2018	1.2	1.8	22				
6/7/2018				15	44	16	0.84
10/16/2018		1.8 (D)				16 (D)	
12/14/2018			21	16	37		
12/17/2018	4						0.94
4/1/2019	4.2	1.7	20	17	39	16	
4/2/2019							0.92
9/16/2019		1.9	23				
9/17/2019	0.79			17	38	17	1
3/25/2020	2.9	2					
3/26/2020			22				
3/27/2020				18	41	17	1.5
9/14/2020	0.75	1.8	22	19			
9/15/2020					40	17	1.1

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	34.8			13.2	28.7	21.9	27.6
5/13/2016		56.9	35.3				
6/29/2016	33.1		34.6	15.8	27.9	21.8	25.6
6/30/2016		46.4					
8/18/2016	35						
8/19/2016						22	29
8/22/2016		48	38	15	30		
10/18/2016			36	14	30	23	32
10/19/2016	38.5 (D)	51					
12/7/2016	39	50			29	23	30
12/8/2016			36	11			
2/15/2017	44						32
2/16/2017		51	41	14	31	27	
4/13/2017	45	35	39	17	32	27	31
6/27/2017	42 (D)						
6/28/2017		36 (D)	36 (D)	15 (D)	29 (D)	25 (D)	27 (D)
10/12/2017	48	43	39	17	31	27	31
6/7/2018	49			11	29	26	25
6/8/2018		90	37				
10/18/2018		100 (D)		12 (D)			
12/14/2018	46						
12/17/2018			42		29	28	24
4/2/2019	46	89	38	14	27	26	23
9/17/2019	51	87	44	14	30		
9/18/2019						27	26
3/23/2020			46	13	36		
3/24/2020	58					31	22
3/26/2020		81					
9/15/2020	54	74	47	14	38	28	21

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	8.7	27.2	47.6	53.1
6/27/2016	7.48	27.9	47	
6/29/2016				52.6
8/17/2016	8	23	45	
8/22/2016				57
10/17/2016	8.6		47	
10/18/2016		24		53
12/6/2016	8.2	23	45	
12/7/2016				47
2/14/2017	7.2	24	49	
2/16/2017				55
4/12/2017	6.7	25	50	
4/13/2017				56
6/27/2017	6.2 (D)	23 (D)	50 (D)	53 (D)
10/11/2017	6.5	22		
10/12/2017			51	55
6/6/2018	4.2	19	51	54
12/14/2018	6.5	16	46	
12/17/2018				55
4/1/2019		18	45	50
4/2/2019	6.7			
9/16/2019	8.9			56
9/17/2019		16	52	
3/25/2020	11		48	55
3/26/2020		21		
9/14/2020	10	20	49	45

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	1.9	1.51	1.94	2.77	3.45		1.98
5/11/2016						1.93	
6/23/2016	2.2	1.8	2.2				2.1
6/24/2016					3.5	1.8	
6/27/2016				2.9			
8/16/2016	2.1	1.5	2		3.4		1.8
8/17/2016				2.4		1.4	
10/13/2016	2		1.9				
10/14/2016		1.4		2.1	3.1		1.8
10/17/2016						1.2	
12/5/2016			1.9				
12/6/2016	2.2	1.5		1.7	3	1.3	1.8
2/14/2017	2	1.5	1.9	1.5	2.4	1.3	1.8
4/10/2017			1.8				
4/11/2017	1.8	1.3		1.7	2.5	1.2	1.7
6/26/2017	1.9	1.4	1.9		2.6	1.2	1.7
6/27/2017				2.2			
10/10/2017	1.8	1.3	1.8				
10/11/2017				1.7	2.4	1.1	1.6
6/5/2018	1.7	1.3	1.9	2			1.6
6/6/2018					2	1.1	
12/13/2018	1.7	1.3	2	1.9	2	1.2	1.7
3/28/2019				2.2	2	1.2	1.7
3/29/2019	1.5	1.2	1.8				
9/12/2019							1.5
9/13/2019			1.7				
9/16/2019	1.8	1.3		1.9	2.2	1.2	
3/17/2020		1.6		2.4	2.1		1.9
3/18/2020	2		2.4			1.5	
9/14/2020	2.1	1.5	2.5	2.7	2.5	1.5	1.9



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	9.53	8.87	9.04				
5/12/2016				6.29	11.1	9.47	8.56
6/28/2016	9.1	8.3	8.8	5.4	10	9.8	7.8
8/17/2016	9.4	8.6					
8/18/2016			9.3	5.8	11	10	8.5
10/17/2016	8.9	7.9	8.3	5.4	11		
10/18/2016						9.4	8
12/6/2016	8.9	7.9	8.9	5.6			
12/7/2016					11	9.8	8
2/15/2017	9	7.2	8.7	5.4	11	9.8	
2/16/2017							7.7
4/12/2017	8.5	7.5	8.6	5.6	10	9.2	
4/13/2017							7.5
6/27/2017	9.1	7.8	9.3	5.9	11	9.5	8
10/11/2017		7.4	8.8	5.7	10		
10/12/2017	8.5					9.2	7.6
6/6/2018	8.6	7.5	8.8				
6/7/2018				6.2	10	9.3	7.7
10/16/2018		7.8 (D)				10 (D)	
12/14/2018			9.1	7.5	10		
12/17/2018	8.6						8.1
4/1/2019	7.8	7.4	9	7.7	9.9	9.2	
4/2/2019							8.2
9/16/2019		7.9	9.3				
9/17/2019	9.7			8.4	11	10	8.4
3/25/2020	8.8	9					
3/26/2020			9.4				
3/27/2020				9	11	10	8.5
9/14/2020	10	8.9	10	11			
9/15/2020					11	10	8.6

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	9.11			10.8	7.93	10.6	9.63
5/13/2016		4.87	8.16				
6/29/2016	8.3		7.6	11	7.7	9.7	8.8
6/30/2016		4.7					
8/18/2016	8.8						
8/19/2016						11	9.6
8/22/2016		5	8.2	11	7.9		
10/18/2016			7.7	10	7.1	10	9.6
10/19/2016	8.3 (D)	5.1					
12/7/2016	8.4	5.6			7.7	10	9.7
12/8/2016			7.8	9.7			
2/15/2017	8.1						10
2/16/2017		7.4	7.4	9.8	7.4	9.8	
4/13/2017	7.9	8.9	7.5	10	7.4	9.6	9
6/27/2017	8.3						
6/28/2017		10	7.9	12	8.1	10	9.6
10/12/2017	8	7.4	7.4	11	8.1	9.7	9.3
6/7/2018	8			9.9	8.6	10	10
6/8/2018		9	7.2				
10/18/2018		16 (D)		11 (D)			
12/14/2018	8.1						
12/17/2018			7.3		9.3	10	9.9
4/2/2019	8.2	15	7.3	11	9.3	10	8.9
9/17/2019	8.3	13	7.4	11	10		
9/18/2019						10	9.7
3/23/2020			7.7	10	11		
3/24/2020	7.8					10	9.1
3/26/2020		12					
9/15/2020	8.4	11	7.7	11	12	11	10

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	2.44	9.65	12.6	9.29
6/27/2016	2.5	6.7	13	
6/29/2016				9
8/17/2016	2.4	6.4	14	
8/22/2016				9.7
10/17/2016	2.3		12	
10/18/2016		5.9		9.4
12/6/2016	2.3	5.9	12	
12/7/2016				11
2/14/2017	1.9	5.8	12	
2/16/2017				9.5
4/12/2017	1.6	5.6	11	
4/13/2017				8.7
6/27/2017	1.6	5.7	12	9.9
10/11/2017	1.6	5		
10/12/2017			11	11
6/6/2018	1.3	4.6	11	12
12/14/2018	1.8	4.2	11	
12/17/2018				13
4/1/2019		4.6	10	13
4/2/2019	2			
9/16/2019	1.9			14
9/17/2019		3.8	12	
3/25/2020	2.3		10	15
3/26/2020		5.1		
9/14/2020	2.8	5.8	14	19

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.002	0.0142	0.00393 (J)	<0.002	0.00634 (J)		<0.002
5/11/2016						0.00217 (J)	
6/23/2016	<0.002	0.0118	0.0027 (J)				<0.002
6/24/2016					0.0053 (J)	0.0015 (J)	
6/27/2016				<0.002			
8/16/2016	<0.002	0.0099	0.0038		0.0071		<0.002
8/17/2016				<0.002		0.0011 (J)	
10/13/2016	<0.002		0.0031				
10/14/2016		0.0045		<0.002	0.0067		0.0012 (J)
10/17/2016						0.0032	
12/5/2016			0.0027				
12/6/2016	<0.002	0.0043		<0.002	0.0063	0.0028	<0.002
2/14/2017	<0.002	0.014	0.0037	<0.002	0.0076	0.0046	<0.002
4/10/2017			0.0037				
4/11/2017	<0.002	0.014		<0.002	0.0098	0.005	<0.002
6/26/2017	<0.002	0.014	0.0047		0.012	0.0061	0.0021 (J)
6/27/2017				<0.002			
3/26/2018	<0.002	0.013	0.0042		0.012		
3/27/2018				<0.002		0.0058	<0.002
6/5/2018	0.0014 (J)	0.014	0.0046	<0.002			<0.002
6/6/2018					0.015	0.0048	
10/5/2018	0.0014 (J)	0.016	0.0058		0.015		
10/8/2018				<0.002		0.0098	0.0011 (J)
2/18/2019	0.0017 (J)	0.012				0.0059	
2/19/2019			0.0038	<0.002	0.014		<0.002
3/28/2019				<0.002	0.013	0.0046	<0.002
3/29/2019	0.0017 (J)	0.014	0.0043				
9/12/2019							0.0023 (J)
9/13/2019			0.0056				
9/16/2019	0.0017 (J)	0.014		0.0015 (J)	0.019	0.0064	
2/13/2020	<0.002	0.011	0.0036				
2/17/2020				<0.002			<0.002
2/18/2020					0.02	0.0062	
3/17/2020		0.014		<0.002	0.018		<0.002
3/18/2020	0.0024		0.0047			0.0047	
5/19/2020	<0.002	0.014	0.0051	<0.002	0.021	0.0058	<0.002
9/14/2020	<0.002	0.014	0.005	0.0021	0.018	0.0054	<0.002

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.002	<0.002	<0.002				
5/12/2016				<0.002	<0.002	0.0335	0.00943 (J)
6/28/2016	<0.002	<0.002	<0.002	<0.002	0.0008 (J)	0.0339	0.0093 (J)
8/17/2016	<0.002	<0.002					
8/18/2016			<0.002	<0.002	<0.002	0.034	0.0085
10/17/2016	<0.002	<0.002	0.0023 (J)	<0.002	0.0012 (J)		
10/18/2016						0.033	0.0088
12/6/2016	<0.002	<0.002	<0.002	<0.002			
12/7/2016					0.0012 (J)	0.032	0.0079
2/15/2017	<0.002	<0.002	<0.002	<0.002	<0.002	0.03	
2/16/2017							0.0097
4/12/2017	<0.002	<0.002	<0.002	<0.002	<0.002	0.035	
4/13/2017							0.0098
6/27/2017	<0.002	<0.002	<0.002	<0.002	<0.002	0.035	0.0096
3/27/2018	<0.002	<0.002	<0.002	<0.002	<0.002	0.031	0.0098
6/6/2018	<0.002	<0.002	<0.002				
6/7/2018				<0.002	<0.002	0.032	0.01
10/8/2018			<0.002	<0.002	<0.002		0.013
10/9/2018	<0.002						
10/16/2018		<0.002 (D)				0.032 (D)	
2/20/2019	<0.002	<0.002	<0.002	<0.002	0.0016 (J)	0.038	0.013
4/1/2019	<0.002	<0.002	<0.002	<0.002	<0.002	0.032	
4/2/2019							0.01
9/16/2019		<0.002	<0.002				
9/17/2019	<0.002			0.0017 (J)	0.0026	0.037	0.013
2/18/2020		<0.002					
2/19/2020	<0.002		<0.002	<0.002	<0.002	0.038	0.014
3/25/2020	<0.002	<0.002					
3/26/2020			<0.002				
3/27/2020				<0.002	0.0019 (J)	0.034	0.011
9/14/2020	<0.002	<0.002	<0.002	<0.002			
9/15/2020					<0.002	0.034	0.012

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.0077 (J)			<0.002	<0.002	<0.002	<0.002
5/13/2016		0.00771 (J)	0.0151				
6/29/2016	0.0036 (J)		0.0141	0.0009 (J)	0.0012 (J)	0.0007 (J)	0.0013 (J)
6/30/2016		0.007 (J)					
8/18/2016	0.0027						
8/19/2016						<0.002	<0.002
8/22/2016		0.007	0.015	<0.002	<0.002		
10/18/2016			0.013	<0.002	<0.002	<0.002	<0.002
10/19/2016	0.00335 (D)	0.0064					
12/7/2016	0.0027	0.0063			<0.002	<0.002	<0.002
12/8/2016			0.013	<0.002			
2/15/2017	0.0044						<0.002
2/16/2017		0.007	0.015	<0.002	<0.002	<0.002	
4/13/2017	0.0047	0.0061	0.016	<0.002	<0.002	<0.002	0.0014 (J)
6/27/2017	0.0029						
6/28/2017		0.0059	0.016	<0.002	<0.002	<0.002	0.0025
3/27/2018	0.0045						0.0012 (J)
3/28/2018		0.0082	0.014	<0.002	<0.002	<0.002	
6/7/2018	0.0083			<0.002	<0.002	<0.002	<0.002
6/8/2018		0.0086	0.015				
10/8/2018	0.0055				<0.002	0.0012 (J)	0.0017 (J)
10/9/2018			0.017				
10/18/2018		0.009 (D)		<0.002 (D)			
2/19/2019						<0.002	<0.002
2/20/2019	0.0061	0.011	0.017	<0.002	0.0015 (J)		
4/2/2019	0.004	0.0092	0.014	<0.002	<0.002	0.0012 (J)	0.0011 (J)
9/17/2019	0.0078	0.011	0.017	0.0022 (J)	0.0016 (J)		
9/18/2019						0.0024 (J)	0.0024 (J)
2/18/2020				<0.002	<0.002	0.0015 (J)	<0.002
2/19/2020	0.0045		0.017				
2/20/2020		0.011					
3/23/2020			0.015	<0.002	<0.002		
3/24/2020	0.0079					<0.002	<0.002
3/26/2020		0.0096					
9/15/2020	0.0091	0.01	0.015	<0.002	0.002	0.0025	0.0017 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/6/2021 12:36 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.002	<0.002	<0.002	<0.002
6/27/2016	<0.002	<0.002	<0.002	
6/29/2016				<0.002
8/17/2016	<0.002	<0.002	<0.002	
8/22/2016				<0.002
10/17/2016	<0.002		<0.002	
10/18/2016		<0.002		<0.002
12/6/2016	<0.002	<0.002	<0.002	
12/7/2016				<0.002
2/14/2017	<0.002	<0.002	<0.002	
2/16/2017				<0.002
4/12/2017	<0.002	<0.002	0.0011 (J)	
4/13/2017				<0.002
6/27/2017	<0.002	<0.002	<0.002	<0.002
3/27/2018	<0.002	<0.002	0.0012 (J)	
3/28/2018				<0.002
6/6/2018	<0.002	<0.002	0.0013 (J)	<0.002
10/8/2018	<0.002			
10/9/2018		<0.002	0.0016 (J)	<0.002
2/20/2019	<0.002	<0.002	0.0021 (J)	<0.002
4/1/2019		<0.002	0.0013 (J)	<0.002
4/2/2019	<0.002			
9/16/2019	<0.002			<0.002
9/17/2019		<0.002	0.0031	
2/18/2020	<0.002	<0.002	0.0015 (J)	
2/19/2020				<0.002
3/25/2020	<0.002		<0.002	<0.002
3/26/2020		<0.002		
9/14/2020	<0.002	<0.002	<0.002	<0.002

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/6/2021 12:36 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.0184	<0.0025	<0.0025	0.0132	<0.0025		<0.0025
5/11/2016						<0.0025	
6/23/2016	0.0168	0.0004 (J)	0.0004 (J)				<0.0025
6/24/2016					<0.0025	<0.0025	
6/27/2016				0.0099 (J)			
8/16/2016	0.016	<0.0025	<0.0025		0.00051 (J)		<0.0025
8/17/2016				0.01		0.00041 (J)	
10/13/2016	0.02		0.0004 (J)				
10/14/2016		<0.0025		0.013	<0.0025		<0.0025
10/17/2016						<0.0025	
12/5/2016			<0.0025				
12/6/2016	0.016	<0.0025		0.016	<0.0025	<0.0025	<0.0025
2/14/2017	0.011	<0.0025	<0.0025	0.018	<0.0025	<0.0025	<0.0025
4/10/2017			<0.0025				
4/11/2017	0.0098	<0.0025		0.015	<0.0025	<0.0025	<0.0025
6/26/2017	0.01	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
6/27/2017				0.0088			
3/26/2018	0.0065	<0.0025	<0.0025		<0.0025		
3/27/2018				0.014		<0.0025	<0.0025
6/5/2018	0.0028	<0.0025	<0.0025	0.0095			<0.0025
6/6/2018					<0.0025	<0.0025	
10/5/2018	0.00075 (J)	<0.0025	0.00058 (J)		<0.0025		
10/8/2018				0.0047		<0.0025	<0.0025
2/18/2019	0.0008 (J)	<0.0025				<0.0025	
2/19/2019			<0.0025	0.005	<0.0025		<0.0025
3/28/2019				0.0042	<0.0025	<0.0025	<0.0025
3/29/2019	0.00072 (J)	<0.0025	<0.0025				
9/12/2019							<0.0025
9/13/2019			0.00018 (J)				
9/16/2019	0.0014 (J)	<0.0025		0.0045	<0.0025	<0.0025	
2/13/2020	0.0014 (J)	<0.0025	<0.0025				
2/17/2020				0.0044			<0.0025
2/18/2020					<0.0025	<0.0025	
3/17/2020		<0.0025		0.0039	<0.0025		<0.0025
3/18/2020	0.0021 (J)		0.00016 (J)			0.00032 (J)	
9/14/2020	0.0013 (J)	<0.0025	0.00031 (J)	0.002 (J)	<0.0025	<0.0025	<0.0025



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/6/2021 12:36 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.0191	0.0378	0.00648 (J)				
5/12/2016				0.0145	0.00605 (J)	0.267	0.00303 (J)
6/28/2016	0.0192	0.0332	0.0051 (J)	0.011	0.0115	0.255	0.0029 (J)
8/17/2016	0.022	0.03					
8/18/2016			0.0035	0.0099	0.011	0.26	0.0029
10/17/2016	0.05	0.032	0.003	0.01	0.017		
10/18/2016						0.28	0.0034
12/6/2016	0.04	0.029	0.0036	0.0079			
12/7/2016					0.0043	0.26	0.003
2/15/2017	0.038	0.029	0.004	0.0073	0.0059	0.24	
2/16/2017							0.0033
4/12/2017	0.018	0.028	0.0039	0.0078	0.017	0.28	
4/13/2017							0.0034
6/27/2017	0.014	0.029	0.0042	0.0068	0.013	0.29	0.0037
3/27/2018	0.026	0.024	0.0035	0.0035	0.0083	0.27	0.0037
6/6/2018	0.018	0.026	0.0038				
6/7/2018				0.0039	0.0025	0.3	0.0037
10/8/2018			0.0037	0.0036	0.0071		0.0044
10/9/2018	0.03						
10/16/2018		0.023 (D)				0.27 (D)	
2/20/2019	0.034	0.024	0.0032	0.004	0.011	0.26	0.0038
4/1/2019	0.025	0.021	0.0029	0.003	0.014	0.26	
4/2/2019							0.0041
9/16/2019		0.022	0.003				
9/17/2019	0.022			0.0024 (J)	0.0096	0.27	0.0042
2/18/2020		0.018					
2/19/2020	0.027		0.0027	0.0018 (J)	0.0099	0.28	0.0047
3/25/2020	0.029	0.024					
3/26/2020			0.0024 (J)				
3/27/2020				0.002 (J)	0.0093	0.28	0.0047
9/14/2020	0.022	0.019	0.001 (J)	0.0022 (J)			
9/15/2020					0.0076	0.25	0.0043

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/6/2021 12:37 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.0025			0.261	<0.0025	0.00619 (J)	<0.0025
5/13/2016		0.116	<0.0025				
6/29/2016	0.0007 (J)		0.0006 (J)	0.23	<0.0025	0.0051 (J)	<0.0025
6/30/2016		0.112					
8/18/2016	0.00078 (J)						
8/19/2016						0.0045	<0.0025
8/22/2016		0.13	0.00066 (J)	0.25	<0.0025		
10/18/2016			0.00095 (J)	0.26	<0.0025	0.0043	<0.0025
10/19/2016	0.000845 (JD)	0.14					
12/7/2016	0.00056 (J)	0.11			<0.0025	0.0034	<0.0025
12/8/2016			0.00078 (J)	0.26			
2/15/2017	0.00069 (J)						<0.0025
2/16/2017		0.11	0.00049 (J)	0.23	<0.0025	0.0031	
4/13/2017	0.00049 (J)	0.094	<0.0025	0.19	<0.0025	0.0031	<0.0025
6/27/2017	0.00041 (J)						
6/28/2017		0.085	<0.0025	0.19	<0.0025	0.0029	<0.0025
3/27/2018	<0.0025						<0.0025
3/28/2018		0.16	<0.0025	0.18	<0.0025	0.0022 (J)	
6/7/2018	<0.0025			0.21	<0.0025	0.0022 (J)	<0.0025
6/8/2018		0.19	<0.0025				
10/8/2018	0.00046 (J)				<0.0025	0.0021 (J)	<0.0025
10/9/2018			<0.0025				
10/18/2018		0.21 (D)		0.16 (D)			
2/19/2019						0.0018 (J)	<0.0025
2/20/2019	0.00035 (J)	0.19	0.00012 (J)	0.18	0.00011 (J)		
4/2/2019	<0.0025	0.18	<0.0025	0.13	<0.0025	0.0018 (J)	<0.0025
9/17/2019	0.00048 (J)	0.16	0.00013 (J)	0.13	8.7E-05 (J)		
9/18/2019						0.002 (J)	0.00013 (J)
2/18/2020				0.12	0.00014 (J)	0.0018 (J)	<0.0025
2/19/2020	0.00034 (J)		0.00015 (J)				
2/20/2020		0.14					
3/23/2020			<0.0025	0.22	0.00016 (J)		
3/24/2020	0.00044 (J)					0.0016 (J)	<0.0025
3/26/2020		0.15					
9/15/2020	0.00041 (J)	0.12	0.00016 (J)	0.098	0.00022 (J)	0.0014 (J)	<0.0025

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/6/2021 12:37 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.0025	0.0116	0.00265 (J)	0.0156
6/27/2016	0.002 (J)	0.0143	0.0012 (J)	
6/29/2016				0.0147
8/17/2016	0.0018 (J)	0.012	0.00049 (J)	
8/22/2016				0.017
10/17/2016	0.0016 (J)		<0.0025	
10/18/2016		0.0099		0.017
12/6/2016	0.0012 (J)	0.011	<0.0025	
12/7/2016				0.014
2/14/2017	0.0022 (J)	0.0093	<0.0025	
2/16/2017				0.014
4/12/2017	0.0023 (J)	0.0062	<0.0025	
4/13/2017				0.014
6/27/2017	0.0045	0.021	<0.0025	0.013
3/27/2018	0.004	0.0054	<0.0025	
3/28/2018				0.0087
6/6/2018	0.0021 (J)	0.0034	<0.0025	0.0064
10/8/2018	<0.0025			
10/9/2018		0.013	<0.0025	0.0049
2/20/2019	0.00011 (J)	0.0057	0.00014 (J)	0.01
4/1/2019		0.0046	<0.0025	0.01
4/2/2019	<0.0025			
9/16/2019	0.00013 (J)			0.001 (J)
9/17/2019		0.0039	0.00013 (J)	
2/18/2020	<0.0025	0.0067	<0.0025	
2/19/2020				0.0082
3/25/2020	0.00027 (J)		0.00032 (J)	0.0064
3/26/2020		0.0033		
9/14/2020	<0.0025	0.0063	<0.0025	0.00048 (J)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.275 (U)	0.441	0.31 (U)	-0.013 (U)	0.188 (U)		0.338 (U)
5/11/2016						0.284 (U)	
6/23/2016	0.077 (U)	0.155 (U)	0.455 (U)				0.358 (U)
6/24/2016					1.2	0.974	
6/27/2016				0.667 (U)			
8/16/2016	0.13 (U)	0.621	0.162 (U)		0.168 (U)		0.224 (U)
8/17/2016				0.148 (U)		0.202 (U)	
10/13/2016	0.309 (U)		0.327 (U)				
10/14/2016		0.765		0.448 (U)	0.345 (U)		0.999
10/17/2016						0.114 (U)	
12/5/2016			0.233 (U)				
12/6/2016	0.346 (U)	0.29 (U)		0.51	0.221 (U)	0.251 (U)	0.387 (U)
2/14/2017	0.352 (U)	0.111 (U)	0.237 (U)	0.302 (U)	-0.026 (U)	-0.0166 (U)	0.207 (U)
4/10/2017			0.00056 (U)				
4/11/2017	0.274 (U)	0.195 (U)		-0.0184 (U)	0.135 (U)	-0.168 (U)	0.219 (U)
6/26/2017	0.36	0.0975 (U)	-0.257 (U)		0.332 (U)	0.184 (U)	0.151 (U)
6/27/2017				-0.0536 (U)			
3/26/2018	0.522	0.124 (U)	0.141 (U)		0.226 (U)		
3/27/2018				0.207 (U)		0.164 (U)	0.252 (U)
6/5/2018	0.106 (U)	0.0496 (U)	0.163 (U)	-0.0364 (U)			0.255 (U)
6/6/2018					0.175 (U)	0.308	
10/5/2018	0.522	0.474	0.568		0.5		
10/8/2018				0.478		-0.0974 (U)	0.764
2/18/2019	0.362	0.25 (U)				0.0112 (U)	
2/19/2019			0.14 (U)	0.32 (U)	0.231 (U)		0.044 (U)
3/28/2019				0.0254 (U)	0.31 (U)	0.0974 (U)	0.115 (U)
3/29/2019	0.311 (U)	-0.0232 (U)	0.0992 (U)				
9/12/2019							0.102 (U)
9/13/2019			0.339 (U)				
9/16/2019	0.157 (U)	-0.245 (U)		-0.0172 (UR)	0.333 (U)	0.0843 (U)	
2/13/2020	0.152 (U)	0.205 (U)	0.287 (U)				
2/17/2020				-0.0319 (U)			-0.0291 (U)
2/18/2020					0.313 (U)	0.199 (U)	
3/17/2020		0.582 (U)		0.436 (U)	-0.0428 (U)		-0.196 (U)
3/18/2020	0.21 (U)		0.536			0.226 (U)	
9/14/2020	-0.13 (U)	0.107 (U)	0.637 (U)	-0.197 (U)	0.161 (U)	0.0399 (U)	-0.949 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.26 (U)	0.182 (U)	0.433				
5/12/2016				0.0531 (U)	0.106 (U)	0.344 (U)	0.0196 (U)
6/28/2016	1.57	0.858	0.435 (U)	0.483 (U)	0.735 (U)	0.256 (U)	0.418 (U)
8/17/2016	0.548 (U)	0.367 (U)					
8/18/2016			0.214 (U)	0.286 (U)	0.212 (U)	0.503 (U)	0.199 (U)
10/17/2016	-0.0725 (U)	0.551	0.316 (U)	0.472	-0.187 (U)		
10/18/2016						0.171 (U)	0.0404 (U)
12/6/2016	0.496	0.438	0.0575 (U)	0.903			
12/7/2016					0.701	0.375 (U)	0.426
2/15/2017	0.321 (U)	-0.0831 (U)	-0.0321 (U)	-0.223 (U)	0.155 (U)	0.0801 (U)	
2/16/2017							0.163 (U)
4/12/2017	-0.0397 (U)	0.343 (U)	0.00949 (U)	0.21 (U)	0.233 (U)	0.197 (U)	
4/13/2017							0.0522 (U)
6/27/2017	0.47	0.369	0.183 (U)	0.0574 (U)	0.302	0.0274 (U)	0.222 (U)
3/27/2018	0.136 (U)	0.172 (U)	0.445	0.145 (U)	0.306 (U)	0.285 (U)	0.387 (U)
6/6/2018	0.123 (U)	0.153 (U)	0.0775 (U)				
6/7/2018				0.235 (U)	0.211 (U)	0.64	0.283 (U)
10/8/2018			0.865	0.64	0.636		0.799
10/9/2018	0.387						
10/16/2018		1.06 (D)				0.731 (D)	
2/20/2019	0.0159 (U)	0.708	0.161 (U)	0.222 (U)	0.147 (U)	0.573	0.0684 (U)
4/1/2019	0.452	0.173 (U)	0.372	0.36	-0.138 (U)	0.0499 (U)	
4/2/2019							0.167 (U)
9/16/2019		0.251 (U)	0.569 (U)				
9/17/2019	0.226 (U)			0.143 (U)	0.264 (U)	0.441 (U)	0.558
2/18/2020		0.203 (U)					
2/19/2020	0.0222 (U)		0.166 (U)	0.218 (U)	0.0061 (U)	0.415 (U)	0.0321 (U)
3/25/2020	0.253 (U)	0.204 (U)					
3/26/2020			0.604				
3/27/2020				0.235 (U)	0.206 (U)	0.39 (U)	0.305 (U)
9/14/2020	0.125 (U)	-0.0264 (U)	0.575	0.613			
9/15/2020					0.131 (U)	0.546	-0.0426 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.134 (U)			0.556	0.216 (U)	0.285 (U)	0.801
5/13/2016		0.103 (U)	-0.115 (U)				
6/29/2016	0.391 (U)		0.396 (U)	0.162 (U)	0.253 (U)	1.1	0.423 (U)
6/30/2016		0.593 (U)					
8/18/2016	0.498 (U)						
8/19/2016						0.367 (U)	0.869
8/22/2016		0.17 (U)	-0.102 (U)	0.433 (U)	0.115 (U)		
10/18/2016			0.352 (U)	0.741	0.593	0.276 (U)	0.881
10/19/2016	0.639	0.433					
12/7/2016	0.239 (U)	0.435 (U)			0.897	0.318 (U)	0.455
12/8/2016			0.431 (U)	1.06			
2/15/2017	0.175 (U)						0.635
2/16/2017		0.101 (U)	0.146 (U)	0.382 (U)	0.132 (U)	0.168 (U)	
4/13/2017	-0.00846 (U)	-0.0014 (U)	0.127 (U)	0.189 (U)	0.287 (U)	0.3 (U)	0.413
6/27/2017	0.186 (U)						
6/28/2017		0.512	0.11 (U)	0.84	0.143 (U)	0.0844 (U)	0.331 (U)
3/27/2018	0.249 (U)						0.61
3/28/2018		0.428	0.247 (U)	0.334 (U)	0.38	0.0661 (U)	
6/7/2018	0.172 (U)			0.235 (U)	0.514	0.222 (U)	0.64
6/8/2018		0.32 (U)	0.0462 (U)				
10/8/2018	0.682				0.374	0.499	0.437
10/9/2018			0.584				
10/18/2018		0.304 (UD)		0.399 (D)			
2/19/2019						0.532	0.301 (U)
2/20/2019	0.278 (U)	0.139 (U)	0.114 (U)	0.353	0.239 (U)		
4/2/2019	-0.0476 (U)	0.336 (U)	0.11 (U)	0.271 (U)	0.218 (U)	0.313 (U)	0.516
9/17/2019	0.235 (U)	0.449	0.302 (U)	0.591	-0.04 (U)		
9/18/2019						0.101 (U)	0.285 (U)
2/18/2020				0.474	0.287 (U)	0.0109 (U)	0.399
2/19/2020	0.217 (U)		0.308 (U)				
2/20/2020		0.22 (U)					
3/23/2020			0.171 (U)	0.258 (U)	0.384		
3/24/2020	0.426					0.188 (U)	0.183 (U)
3/26/2020		0.366 (U)					
9/15/2020	0.661	1.74	1.55	0.831	1.6	1.82	1.03

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	0.0394 (U)	0.214 (U)	2.05	0.134 (U)
6/27/2016	0.624 (U)	0.581 (U)	2.9	
6/29/2016				0.665 (U)
8/17/2016	0.572	0.665	2.57	
8/22/2016				0.391 (U)
10/17/2016	0.307 (U)		2.08	
10/18/2016		0.453		0.521
12/6/2016	0.122 (U)	0.368 (U)	2.25	
12/7/2016				0.367 (U)
2/14/2017	0.166 (U)	0.328 (U)	1.77	
2/16/2017				0.076 (U)
4/12/2017	0.355 (U)	0.206 (U)	2.72	
4/13/2017				0.239 (U)
6/27/2017	0.0783 (U)	0.598	2.07	0.268 (U)
3/27/2018	0.0443 (U)	0.546	2.3	
3/28/2018				0.378
6/6/2018	0.127 (U)	0.165 (U)	1.59	-0.0272 (U)
10/8/2018	0.77			
10/9/2018		0.385	3.01	0.565
2/20/2019	0.25 (U)	0.433	2.5	0.425
4/1/2019		0.675	1.91	-0.0113 (U)
4/2/2019	0.3 (U)			
9/16/2019	0.0805 (U)			-0.116 (U)
9/17/2019		0.341 (U)	2.04	
2/18/2020	-0.0675 (U)	0.326 (U)	2.06	
2/19/2020				0.0604 (U)
3/25/2020	0.411 (U)		2.99	0.206 (U)
3/26/2020		0.151 (U)		
9/14/2020	0.334 (U)	0.123 (U)	2.16	0.502 (U)

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.1	0.0537 (J)	0.0648 (J)	0.041 (J)	0.0192 (J)		0.0188 (J)
5/11/2016						0.108 (J)	
6/23/2016	<0.1	0.03 (J)	0.05 (J)				<0.1
6/24/2016					0.02 (J)	0.08 (J)	
6/27/2016				0.03 (J)			
8/16/2016	<0.1	<0.1	<0.1		<0.1		<0.1
8/17/2016				<0.1		<0.1	
10/13/2016	<0.1		<0.1				
10/14/2016		<0.1		<0.1	<0.1		<0.1
10/17/2016						<0.1	
12/5/2016			<0.1				
12/6/2016	<0.1	<0.1		<0.1	<0.1	0.091 (J)	<0.1
2/14/2017	<0.1	<0.1	<0.1	<0.1	<0.1	0.1 (J)	<0.1
4/10/2017			<0.1				
4/11/2017	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
6/26/2017	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1
6/27/2017				<0.1			
10/10/2017	<0.1	<0.1	<0.1				
10/11/2017				<0.1	<0.1	<0.1	<0.1
3/26/2018	<0.1	<0.1	<0.1		<0.1		
3/27/2018				<0.1		<0.1	<0.1
6/5/2018	<0.1	<0.1	<0.1	<0.1			<0.1
6/6/2018					<0.1	<0.1	
10/5/2018	<0.1	<0.1	<0.1		<0.1		
10/8/2018				<0.1		<0.1	<0.1
2/18/2019	<0.1	0.05 (J)				0.066 (J)	
2/19/2019			0.06 (J)	0.044 (J)	<0.1		<0.1
3/28/2019				0.037 (J)	0.026 (J)	0.052 (J)	<0.1
3/29/2019	<0.1	0.053 (J)	0.056 (J)				
9/12/2019							<0.1
9/13/2019			0.049 (J)				
9/16/2019	<0.1	0.054 (J)		0.04 (J)	0.026 (J)	0.055 (J)	
2/13/2020	<0.1	0.051 (J)	0.066 (J)				
2/17/2020				0.041 (J)			<0.1
2/18/2020					<0.1	0.068 (J)	
3/17/2020		0.038 (J)		0.041 (J)	0.029 (J)		0.03 (J)
3/18/2020	<0.1		0.078 (J)			<0.1	
9/14/2020	<0.1	0.033 (J)	0.038 (J)	0.028 (J)	<0.1	0.035 (J)	<0.1



# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	0.019 (J)	0.033 (J)	0.11 (J)				
5/12/2016				0.042 (J)	0.031 (J)	0.1071 (J)	0.011 (J)
6/28/2016	<0.1	0.08 (J)	0.18 (J)	0.15 (J)	0.03 (J)	0.26 (J)	0.09 (J)
8/17/2016	<0.1	<0.1					
8/18/2016			0.12 (J)	<0.1	<0.1	0.14 (J)	<0.1
10/17/2016	<0.1	<0.1	0.082 (J)	<0.1	<0.1		
10/18/2016						0.12 (J)	<0.1
12/6/2016	<0.1	<0.1	0.11 (J)	<0.1			
12/7/2016					<0.1	0.13 (J)	<0.1
2/15/2017	<0.1	<0.1	0.13 (J)	<0.1	<0.1	0.12 (J)	
2/16/2017							<0.1
4/12/2017	<0.1	<0.1	0.088 (J)	<0.1	<0.1	0.11 (J)	
4/13/2017							<0.1
6/27/2017	<0.1	<0.1	0.1 (J)	<0.1	<0.1	0.13 (J)	<0.1
10/11/2017		<0.1	<0.1	<0.1	<0.1		
10/12/2017	<0.1					0.13 (J)	<0.1
3/27/2018	<0.1	<0.1	<0.1	<0.1	<0.1	0.12 (J)	<0.1
6/6/2018	<0.1	<0.1	<0.1				
6/7/2018				<0.1	<0.1	0.14 (J)	<0.1
10/8/2018			<0.1	<0.1	<0.1		<0.1
10/9/2018	<0.1						
10/16/2018		<0.1 (D)				0.14 (JD)	
2/20/2019	<0.1	<0.1	0.052 (J)	<0.1	<0.1	0.33	<0.1
4/1/2019	<0.1	<0.1	0.048 (J)	<0.1	<0.1	0.072 (J)	
4/2/2019							<0.1
9/16/2019		<0.1	0.065 (J)				
9/17/2019	<0.1			0.04 (J)	0.028 (J)	0.1	<0.1
2/18/2020		<0.1					
2/19/2020	<0.1		0.064 (J)	0.027 (J)	0.026 (J)	0.13	<0.1
3/25/2020	0.031 (J)	0.058 (J)					
3/26/2020			0.081 (J)				
3/27/2020				0.045 (J)	0.041 (J)	0.13	0.027 (J)
9/14/2020	<0.1	<0.1	0.042 (J)	<0.1			
9/15/2020					0.04 (J)	0.15	0.037 (J)

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	0.066 (J)			0.259 (J)	0.079 (J)	0.029 (J)	0.0341 (J)
5/13/2016		0.0343 (J)	0.0126 (J)				
6/29/2016	0.17 (J)		0.18 (J)	0.45	0.15 (J)	0.04 (J)	0.04 (J)
6/30/2016		0.18 (J)					
8/18/2016	<0.1						
8/19/2016						<0.1	<0.1
8/22/2016		<0.1	<0.1	0.33	0.083 (J)		
10/18/2016			<0.1	0.26	<0.1	<0.1	<0.1
10/19/2016	<0.1 (D)	<0.1					
12/7/2016	<0.1	<0.1			<0.1	<0.1	<0.1
12/8/2016			<0.1	0.28			
2/15/2017	0.089 (J)						0.092 (J)
2/16/2017		<0.1	<0.1	0.28	0.12 (J)	0.1 (J)	
4/13/2017	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
6/27/2017	<0.1						
6/28/2017		<0.1	<0.1	0.22	0.1 (J)	<0.1	<0.1
10/12/2017	<0.1	<0.1	<0.1	0.18 (J)	<0.1	<0.1	<0.1
3/27/2018	<0.1						<0.1
3/28/2018		<0.1	<0.1	0.19 (J)	<0.1	<0.1	
6/7/2018	<0.1			0.21	<0.1	<0.1	<0.1
6/8/2018		<0.1	<0.1				
10/8/2018	<0.1				<0.1	<0.1	<0.1
10/9/2018			<0.1				
10/18/2018		<0.1 (D)		0.23 (D)			
2/19/2019						<0.1	0.055 (J)
2/20/2019	0.034 (J)	<0.1	<0.1	0.2	0.051 (J)		
4/2/2019	0.045 (J)	0.05 (J)	<0.1	0.15 (J)	0.066 (J)	<0.1	0.036 (J)
9/17/2019	0.047 (J)	0.034 (J)	<0.1	0.14	0.077 (J)		
9/18/2019						0.028 (J)	0.044 (J)
2/18/2020				0.16	0.073 (J)	<0.1	0.082 (J)
2/19/2020	0.046 (J)		<0.1				
2/20/2020		<0.1					
3/23/2020			0.057 (J)	0.25	0.11		
3/24/2020	0.058 (J)					<0.1	0.081 (J)
3/26/2020		0.091 (J)					
9/15/2020	0.052 (J)	<0.1	<0.1	0.15	0.061 (J)	<0.1	0.052 (J)

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	0.133 (J)	0.245 (J)	0.362	0.076 (J)
6/27/2016	0.21 (J)	0.23 (J)	0.45	
6/29/2016				0.13 (J)
8/17/2016	0.14 (J)	0.22	0.54	
8/22/2016				<0.1
10/17/2016	0.11 (J)		0.51	
10/18/2016		0.24		<0.1
12/6/2016	0.14 (J)	0.26	0.58	
12/7/2016				<0.1
2/14/2017	0.2	0.17 (J)	0.39	
2/16/2017				0.097 (J)
4/12/2017	0.089 (J)	0.2	0.41	
4/13/2017				<0.1
6/27/2017	0.085 (J)	0.23	0.47	<0.1
10/11/2017	0.089 (J)	0.21		
10/12/2017			0.47	<0.1
3/27/2018	<0.1	0.19 (J)	0.4	
3/28/2018				<0.1
6/6/2018	<0.1	0.2	0.4	<0.1
10/8/2018	<0.1			
10/9/2018		0.2	0.47	<0.1
2/20/2019	0.092 (J)	0.2	0.32	0.074 (J)
4/1/2019		0.12 (J)	0.21	0.041 (J)
4/2/2019	0.1 (J)			
9/16/2019	0.099 (J)			0.057 (J)
9/17/2019		0.2	0.47	
2/18/2020	0.11	0.2	0.38	
2/19/2020				0.061 (J)
3/25/2020	0.13		0.31	0.079 (J)
3/26/2020		0.14		
9/14/2020	0.076 (J)	0.11	0.29	0.037 (J)

# Time Series

Constituent: Lead (mg/L)    Analysis Run 1/6/2021 12:37 PM  
 Plant Scherer    Client: Southern Company    Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
5/11/2016						<0.001	
6/23/2016	<0.001	<0.001	0.0001 (J)				<0.001
6/24/2016					<0.001	<0.001	
6/27/2016				<0.001			
8/16/2016	<0.001	<0.001	<0.001		<0.001		<0.001
8/17/2016				<0.001		<0.001	
10/13/2016	<0.001		<0.001				
10/14/2016		<0.001		<0.001	<0.001		<0.001
10/17/2016						<0.001	
12/5/2016			<0.001				
12/6/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/14/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/10/2017			<0.001				
4/11/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
6/26/2017	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
6/27/2017				<0.001			
3/26/2018	<0.001	<0.001	<0.001		<0.001		
3/27/2018				<0.001		<0.001	<0.001
6/5/2018	<0.001	<0.001	<0.001	<0.001			<0.001
6/6/2018					<0.001	<0.001	
10/5/2018	<0.001	<0.001	<0.001		<0.001		
10/8/2018				<0.001		<0.001	<0.001
2/18/2019	<0.001	<0.001				<0.001	
2/19/2019			<0.001	<0.001	<0.001		<0.001
3/28/2019				<0.001	<0.001	<0.001	<0.001
3/29/2019	<0.001	<0.001	<0.001				
9/12/2019							<0.001
9/13/2019			0.00014 (J)				
9/16/2019	<0.001	<0.001		<0.001	0.00017 (J)	<0.001	
2/13/2020	<0.001	<0.001	<0.001				
2/17/2020				<0.001			<0.001
2/18/2020					<0.001	<0.001	
3/17/2020		<0.001		<0.001	<0.001		<0.001
3/18/2020	0.00022 (J)		0.00022 (J)			0.00021 (J)	
9/14/2020	<0.001	<0.001	0.00014 (J)	<0.001	<0.001	<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/6/2021 12:37 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.001	<0.001	<0.001				
5/12/2016				<0.001	<0.001	<0.001	<0.001
6/28/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/17/2016	<0.001	<0.001					
8/18/2016			<0.001	<0.001	<0.001	<0.001	<0.001
10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2016						<0.001	<0.001
12/6/2016	<0.001	<0.001	<0.001	<0.001			
12/7/2016					<0.001	<0.001	<0.001
2/15/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/16/2017							<0.001
4/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/13/2017							<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/27/2018	<0.001	<0.001	<0.001	0.00039 (J)	<0.001	<0.001	<0.001
6/6/2018	<0.001	<0.001	<0.001				
6/7/2018				<0.001	<0.001	<0.001	<0.001
10/8/2018			<0.001	<0.001	<0.001		<0.001
10/9/2018	<0.001						
10/16/2018		<0.001 (D)				<0.001 (D)	
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/2/2019							<0.001
9/16/2019		<0.001	<0.001				
9/17/2019	0.00013 (J)			<0.001	0.00016 (J)	<0.001	<0.001
2/18/2020		<0.001					
2/19/2020	0.00014 (J)		<0.001	<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001	<0.001					
3/26/2020			<0.001				
3/27/2020				<0.001	0.00066 (J)	0.00023 (J)	0.00013 (J)
9/14/2020	<0.001	<0.001	<0.001	<0.001			
9/15/2020					<0.001	<0.001	<0.001

# Time Series

Constituent: Lead (mg/L)    Analysis Run 1/6/2021 12:37 PM  
 Plant Scherer    Client: Southern Company    Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.001			<0.001	<0.001	<0.001	<0.001
5/13/2016		<0.001	<0.001				
6/29/2016	<0.001		<0.001	0.0005 (J)	9E-05 (J)	<0.001	9E-05 (J)
6/30/2016		<0.001					
8/18/2016	<0.001						
8/19/2016						<0.001	<0.001
8/22/2016		<0.001	<0.001	<0.001	<0.001		
10/18/2016			<0.001	<0.001	<0.001	<0.001	<0.001
10/19/2016	<0.001 (D)	<0.001					
12/7/2016	<0.001	<0.001			<0.001	<0.001	<0.001
12/8/2016			<0.001	<0.001			
2/15/2017	<0.001						<0.001
2/16/2017		<0.001	<0.001	0.00035 (J)	<0.001	<0.001	
4/13/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/27/2017	<0.001						
6/28/2017		<0.001	<0.001	0.00041 (J)	<0.001	<0.001	<0.001
3/27/2018	<0.001						<0.001
3/28/2018		<0.001	<0.001	<0.001	<0.001	<0.001	
6/7/2018	<0.001			<0.001	<0.001	<0.001	<0.001
6/8/2018		<0.001	<0.001				
10/8/2018	<0.001				<0.001	<0.001	<0.001
10/9/2018			<0.001				
10/18/2018		<0.001 (D)		<0.001 (D)			
2/19/2019						<0.001	<0.001
2/20/2019	<0.001	<0.001	<0.001	0.00027 (J)	<0.001		
4/2/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/17/2019	<0.001	<0.001	<0.001	0.00025 (J)	<0.001		
9/18/2019						<0.001	<0.001
2/18/2020				0.00025 (J)	<0.001	0.00018 (J)	<0.001
2/19/2020	<0.001		<0.001				
2/20/2020		<0.001					
3/23/2020			<0.001	0.00023 (J)	<0.001		
3/24/2020	<0.001					<0.001	<0.001
3/26/2020		<0.001					
9/15/2020	<0.001	<0.001	<0.001	0.00017 (J)	0.00022 (J)	0.00019 (J)	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/6/2021 12:37 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.001	<0.001	<0.001	<0.001
6/27/2016	<0.001	<0.001	<0.001	
6/29/2016				<0.001
8/17/2016	<0.001	0.00085 (J)	<0.001	
8/22/2016				<0.001
10/17/2016	<0.001		<0.001	
10/18/2016		<0.001		<0.001
12/6/2016	<0.001	<0.001	<0.001	
12/7/2016				<0.001
2/14/2017	<0.001	<0.001	<0.001	
2/16/2017				<0.001
4/12/2017	<0.001	<0.001	<0.001	
4/13/2017				<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001
3/27/2018	<0.001	<0.001	<0.001	
3/28/2018				<0.001
6/6/2018	<0.001	<0.001	<0.001	<0.001
10/8/2018	<0.001			
10/9/2018		<0.001	<0.001	<0.001
2/20/2019	<0.001	<0.001	<0.001	<0.001
4/1/2019		<0.001	<0.001	<0.001
4/2/2019	<0.001			
9/16/2019	<0.001			<0.001
9/17/2019		<0.001	<0.001	
2/18/2020	<0.001	<0.001	<0.001	
2/19/2020				<0.001
3/25/2020	0.0002 (J)		0.00029 (J)	<0.001
3/26/2020		<0.001		
9/14/2020	<0.001	<0.001	<0.001	<0.001





# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.005	<0.005	<0.005				
5/12/2016				<0.005	<0.005	<0.005	<0.005
6/28/2016	<0.005	0.0013 (J)	<0.005	<0.005	<0.005	0.0024 (J)	<0.005
8/17/2016	<0.005	<0.005					
8/18/2016			<0.005	<0.005	<0.005	<0.005	<0.005
10/17/2016	<0.005	<0.005	<0.005	<0.005	<0.005		
10/18/2016						<0.005	<0.005
12/6/2016	<0.005	<0.005	<0.005	<0.005			
12/7/2016					<0.005	<0.005	<0.005
2/15/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/16/2017							<0.005
4/12/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
4/13/2017							<0.005
6/27/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/27/2018	<0.005	0.0029 (J)	<0.005	<0.005	<0.005	0.0034 (J)	<0.005
6/6/2018	<0.005	0.0017 (J)	<0.005				
6/7/2018				<0.005	<0.005	0.003 (J)	<0.005
10/8/2018			<0.005	0.0014 (J)	0.0011 (J)		0.0015 (J)
10/9/2018	<0.005						
10/16/2018		0.0031 (JD)				0.0034 (JD)	
2/20/2019	<0.005	0.0031 (J)	<0.005	<0.005	<0.005	0.0038 (J)	<0.005
4/1/2019	<0.005	0.0017 (J)	0.0011 (J)	<0.005	<0.005	0.0025 (J)	
4/2/2019							<0.005
9/16/2019		<0.005	<0.005				
9/17/2019	<0.005			<0.005	<0.005	0.0037	<0.005
2/18/2020		<0.005					
2/19/2020	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005	<0.005					
3/26/2020			<0.005				
3/27/2020				<0.005	<0.005	0.0038 (J)	<0.005
9/14/2020	<0.005	<0.005	<0.005	<0.005			
9/15/2020					<0.005	0.0037 (J)	<0.005

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/6/2021 12:37 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.005			<0.05 (O)	<0.005	<0.005	<0.005
5/13/2016		<0.005	<0.005				
6/29/2016	<0.005		<0.005	0.0043 (J)	<0.005	<0.005	0.0027 (J)
6/30/2016		0.0032 (J)					
8/18/2016	<0.005						
8/19/2016						<0.005	<0.005
8/22/2016		<0.005	<0.005	0.0051	<0.005		
10/18/2016			<0.005	0.0038 (J)	<0.005	<0.005	0.0032 (J)
10/19/2016	<0.005 (D)	0.0042 (J)					
12/7/2016	<0.005	<0.005			<0.005	<0.005	0.0043 (J)
12/8/2016			<0.005	0.0043 (J)			
2/15/2017	<0.005						<0.005
2/16/2017		0.0034 (J)	<0.005	0.0047 (J)	<0.005	<0.005	
4/13/2017	<0.005	<0.005	<0.005	0.004 (J)	<0.005	<0.005	0.0036 (J)
6/27/2017	<0.005						
6/28/2017		<0.005	<0.005	0.0032 (J)	<0.005	<0.005	0.0032 (J)
3/27/2018	0.0014 (J)						0.005
3/28/2018		0.0056	<0.005	0.0053	0.0038 (J)	0.0033 (J)	
6/7/2018	<0.005			0.0038 (J)	0.0013 (J)	<0.005	0.0027 (J)
6/8/2018		0.0042 (J)	0.0022 (J)				
10/8/2018	<0.005				0.0019 (J)	0.0011 (J)	0.0035 (J)
10/9/2018			<0.005				
10/18/2018		0.0054 (D)		0.0062 (D)			
2/19/2019						<0.005	<0.005
2/20/2019	<0.005	0.0054	<0.005	0.0048 (J)	<0.005		
4/2/2019	<0.005	0.0041 (J)	0.0021 (J)	0.0046 (J)	0.0027 (J)	0.0026 (J)	0.0041 (J)
9/17/2019	<0.005	0.005	<0.005	0.0042	<0.005		
9/18/2019						<0.005	0.0043
2/18/2020				0.0036 (J)	<0.005	<0.005	<0.005
2/19/2020	<0.005		<0.005				
2/20/2020		0.0045 (J)					
3/23/2020			<0.005	0.0045 (J)	<0.005		
3/24/2020	<0.005					<0.005	<0.005
3/26/2020		0.0046 (J)					
9/15/2020	<0.005	0.0049 (J)	<0.005	0.0037 (J)	<0.005	<0.005	<0.005

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.005	<0.05 (O)	<0.005	<0.005
6/27/2016	<0.005	0.0031 (J)	0.0013 (J)	
6/29/2016				<0.005
8/17/2016	<0.005	0.0046 (J)	<0.005	
8/22/2016				<0.005
10/17/2016	<0.005		<0.005	
10/18/2016		0.0036 (J)		<0.005
12/6/2016	<0.005	0.0043 (J)	<0.005	
12/7/2016				<0.005
2/14/2017	<0.005	0.0043 (J)	<0.005	
2/16/2017				<0.005
4/12/2017	<0.005	0.0051	<0.005	
4/13/2017				<0.005
6/27/2017	<0.005	0.0033 (J)	<0.005	<0.005
3/27/2018	<0.005	0.0061	0.0023 (J)	
3/28/2018				<0.005
6/6/2018	<0.005	0.004 (J)	0.0018 (J)	<0.005
10/8/2018	<0.005			
10/9/2018		0.0053	0.002 (J)	<0.005
2/20/2019	<0.005	0.006	<0.005	<0.005
4/1/2019		0.0058	0.0021 (J)	<0.005
4/2/2019	<0.005			
9/16/2019	<0.005			<0.005
9/17/2019		0.0049	<0.005	
2/18/2020	<0.005	0.0052	<0.005	
2/19/2020				<0.005
3/25/2020	<0.005		<0.005	<0.005
3/26/2020		0.006		
9/14/2020	<0.005	0.0051	<0.005	<0.005



# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.0002	<0.0002	<0.0002				
5/12/2016				<0.0002	<0.0002	<0.0002	<0.0002
6/28/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002					
8/18/2016			<0.0002	<0.0002	<0.0002	0.00011 (J)	<0.0002
10/17/2016	<0.0002	<0.0002	<0.0002	<0.0002	8.9E-05 (J)		
10/18/2016						0.00012 (J)	<0.0002
12/6/2016	0.00013 (J)	0.0001 (J)	9.3E-05 (J)	0.00011 (J)			
12/7/2016					0.00012 (J)	0.00017 (J)	7.6E-05 (J)
2/15/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00011 (J)	
2/16/2017							<0.0002
4/12/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	7.2E-05 (J)	
4/13/2017							<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.4E-05 (J)	<0.0002
3/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	0.0001 (J)	0.00014 (J)	<0.0002
6/6/2018	<0.0002	<0.0002	<0.0002				
6/7/2018				<0.0002	<0.0002	0.00013 (J)	<0.0002
10/8/2018			<0.0002	<0.0002	<0.0002		<0.0002
10/9/2018	<0.0002						
10/16/2018		<0.0002				<0.0002	
2/20/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/1/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
4/2/2019							<0.0002
9/16/2019		<0.0002	<0.0002				
9/17/2019	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/18/2020		<0.0002					
2/19/2020	<0.0002		<0.0002	<0.0002	0.0002	0.00016 (J)	<0.0002
3/25/2020	<0.0002	<0.0002					
3/26/2020			<0.0002				
3/27/2020				<0.0002	<0.0002	0.00011 (J)	<0.0002
9/14/2020	<0.0002	<0.0002	<0.0002	<0.0002			
9/15/2020					<0.0002	<0.0002	<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
5/13/2016		<0.0002	<0.0002				
6/29/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/30/2016		<0.0002					
8/18/2016	<0.0002						
8/19/2016						<0.0002	7.1E-05 (J)
8/22/2016		0.00014 (J)	<0.0002	7.3E-05 (J)	<0.0002		
10/18/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/19/2016	<0.0002 (D)	<0.0002					
12/7/2016	0.00011 (J)	0.00014 (J)			0.0001 (J)	9.9E-05 (J)	0.00011 (J)
12/8/2016			<0.0002	<0.0002			
2/15/2017	<0.0002						<0.0002
2/16/2017		8.4E-05 (J)	<0.0002	<0.0002	<0.0002	<0.0002	
4/13/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002						
6/28/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/27/2018	<0.0002						<0.0002
3/28/2018		8.3E-05 (J)	<0.0002	<0.0002	<0.0002	<0.0002	
6/7/2018	0.00011 (J)			8.2E-05 (J)	<0.0002	<0.0002	0.00028
6/8/2018		0.00014 (J)	<0.0002				
10/8/2018	<0.0002				<0.0002	<0.0002	<0.0002
10/9/2018			<0.0002				
10/18/2018		0.00021		<0.0002 (D)			
2/19/2019						<0.0002	<0.0002
2/20/2019	<0.0002	0.00026	<0.0002	<0.0002	<0.0002		
4/2/2019	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/17/2019	<0.0002	0.00014 (J)	<0.0002	<0.0002	<0.0002		
9/18/2019						<0.0002	<0.0002
2/18/2020				<0.0002	<0.0002	<0.0002	0.00011 (J)
2/19/2020	<0.0002		<0.0002				
2/20/2020		0.00022					
3/23/2020			<0.0002	<0.0002	<0.0002		
3/24/2020	<0.0002					<0.0002	<0.0002
3/26/2020		0.00019 (J)					
9/15/2020	<0.0002	0.00013 (J)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.0002	<0.0002	<0.0002	<0.0002
6/27/2016	<0.0002	<0.0002	<0.0002	
6/29/2016				<0.0002
8/17/2016	<0.0002	<0.0002	<0.0002	
8/22/2016				<0.0002
10/17/2016	<0.0002		<0.0002	
10/18/2016		<0.0002		<0.0002
12/6/2016	0.00011 (J)	0.00011 (J)	7.6E-05 (J)	
12/7/2016				0.0001 (J)
2/14/2017	<0.0002	<0.0002	<0.0002	
2/16/2017				<0.0002
4/12/2017	<0.0002	<0.0002	<0.0002	
4/13/2017				<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002	<0.0002
3/27/2018	<0.0002	<0.0002	<0.0002	
3/28/2018				<0.0002
6/6/2018	<0.0002	<0.0002	<0.0002	<0.0002
10/8/2018	<0.0002			
10/9/2018		<0.0002	<0.0002	<0.0002
2/20/2019	<0.0002	<0.0002	<0.0002	<0.0002
4/1/2019		<0.0002	<0.0002	<0.0002
4/2/2019	<0.0002			
9/16/2019	<0.0002			<0.0002
9/17/2019		<0.0002	<0.0002	
2/18/2020	<0.0002	<0.0002	<0.0002	
2/19/2020				<0.0002
3/25/2020	<0.0002		<0.0002	<0.0002
3/26/2020		<0.0002		
9/14/2020	<0.0002	<0.0002	<0.0002	<0.0002





# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.015	<0.015	<0.015				
5/12/2016				<0.015	<0.015	<0.015	<0.015
6/28/2016	<0.015	<0.015	0.0012 (J)	<0.015	<0.015	<0.015	<0.015
8/17/2016	<0.015	<0.015					
8/18/2016			0.0011 (J)	<0.015	<0.015	<0.015	<0.015
10/17/2016	<0.015	<0.015	<0.015	<0.015	<0.015		
10/18/2016						<0.015	<0.015
12/6/2016	<0.015	<0.015	<0.015	<0.015			
12/7/2016					<0.015	<0.015	<0.015
2/15/2017	<0.015	<0.015	<0.015	<0.015	0.003 (J)	<0.015	
2/16/2017							<0.015
4/12/2017	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
4/13/2017							<0.015
6/27/2017	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
3/27/2018	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
10/8/2018			<0.015	<0.015	<0.015		<0.015
10/9/2018	<0.015						
10/16/2018		<0.015				<0.015	
2/20/2019	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
4/1/2019	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
4/2/2019							<0.015
9/16/2019		<0.015	<0.015				
9/17/2019	<0.015			<0.015	<0.015	<0.015	<0.015
2/18/2020		<0.015					
2/19/2020	<0.015		<0.015	<0.015	<0.015	<0.015	<0.015
3/25/2020	<0.015	<0.015					
3/26/2020			<0.015				
3/27/2020				<0.015	0.00081 (J)	<0.015	<0.015
9/14/2020	<0.015	<0.015	<0.015	<0.015			
9/15/2020					<0.015	<0.015	<0.015



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.015	0.00343 (J)	<0.015	<0.015
6/27/2016	0.0007 (J)	0.0033 (J)	0.0008 (J)	
6/29/2016				0.0021 (J)
8/17/2016	<0.015	0.002 (J)	<0.015	
8/22/2016				0.00099 (J)
10/17/2016	<0.015		<0.015	
10/18/2016		0.0012 (J)		0.0014 (J)
12/6/2016	<0.015	0.0021 (J)	<0.015	
12/7/2016				0.001 (J)
2/14/2017	<0.015	<0.015	<0.015	
2/16/2017				<0.015
4/12/2017	<0.015	0.0033 (J)	<0.015	
4/13/2017				0.001 (J)
6/27/2017	0.00099 (J)	0.0021 (J)	<0.015	<0.015
3/27/2018	<0.015	<0.015	<0.015	
3/28/2018				<0.015
10/8/2018	<0.015			
10/9/2018		<0.015	<0.015	<0.015
2/20/2019	<0.015	0.0013 (J)	<0.015	0.00075 (J)
4/1/2019		<0.015	<0.015	<0.015
4/2/2019	<0.015			
9/16/2019	<0.015			0.00067 (J)
9/17/2019		0.0014 (J)	<0.015	
2/18/2020	<0.015	0.0014 (J)	<0.015	
2/19/2020				0.00063 (J)
3/25/2020	<0.015		<0.015	<0.015
3/26/2020		0.001 (J)		
9/14/2020	<0.015	0.0012 (J)	<0.015	<0.015

# Time Series

Constituent: pH (S.U.) Analysis Run 1/6/2021 12:37 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	5.51	6.83	6.34	6.14	5.75		5.84
5/11/2016						6.49	
8/16/2016	5.42	6.73	6.35		5.72		5.64
8/17/2016				6.1		6.42	
10/13/2016	5.52		6.34				
10/14/2016		6.47		6.14	5.71		5.59
10/17/2016						6.44	
12/5/2016			6.32				
12/6/2016	5.33	6.74		6.19	5.68	6.48	5.46
2/14/2017	5.29	6.85	6.33	6.34	5.57	6.18	5.29
4/10/2017			6.31				
4/11/2017	5.21	6.75		6.16	5.7	6.49	5.54
6/26/2017	5.25	6.82	6.35		5.68	6.48	5.54
6/27/2017				6.08			
10/10/2017	5.49	6.87	6.37				
10/11/2017				6.16	5.63	6.42	5.43
3/26/2018	5.39	6.77	6.32		5.89		
3/27/2018				6.12		6.53	5.52
6/5/2018	5.38	6.73	6.27	6.06			5.59
6/6/2018					5.62	6.7	
10/5/2018	5.46	6.81	6.37		5.76		5.7
10/8/2018				6.16		6.53	
3/28/2019				6.15	5.88	6.53	5.67
3/29/2019	5.22	6.81	6.31				
9/12/2019							5.59
9/13/2019			6.36				
9/16/2019	5.22	6.82		6.05	5.8	6.44	
2/13/2020	5.09	6.59	6.24				
2/17/2020				6.1			5.73
2/18/2020					5.76	6.38	
3/17/2020		6.83		6.02	5.87		5.62
3/18/2020	5.37		6.4			6.36	
5/19/2020	5.37	6.8	6.37	6.03	5.8	6.38	5.61
9/14/2020	5.11	6.73	6.52	5.98	5.84	6.4	5.82

# Time Series

Constituent: pH (S.U.) Analysis Run 1/6/2021 12:37 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	5.7	5.84	6.28				
5/12/2016				6.09	5.79	4.76	5.29
8/17/2016	5.55	5.71					
8/18/2016			6.23	6	5.75	4.73	5.3
10/17/2016	5.45	5.69	6.27	6.01	5.73		
10/18/2016						4.62	5.23
12/6/2016	5.49	5.58	6.28	5.98			
12/7/2016					5.75	4.63	5.31
2/15/2017	5.29	5.54	6.21	5.74	5.58	4.51	
2/16/2017							4.77
4/12/2017	5.39	5.47	6.15	6.01	5.85	4.67	
4/13/2017							5.28
6/27/2017		5.47	6.23	6.05	5.86	4.66	5.22 (D)
10/11/2017		5.58	6.26	6.14	5.98		
10/12/2017	5.3					4.76	5.43
3/27/2018	5.58	5.65	6.32	6.25	5.87	4.61	5.28
6/6/2018	5.43	5.32	6.1				
6/7/2018				5.93	5.81	4.62	5.26
10/8/2018			6.16	6.02	5.83		5.29
10/9/2018	5.29						
10/16/2018		5.34				4.59	
4/1/2019	5.46	5.24	6.14	6.06	5.89	4.72	
4/2/2019							5.27
9/16/2019		5.32	6.18				
9/17/2019	5.31			5.98	5.78	4.65	5.26
2/18/2020		5.09					
2/19/2020	5.07		6.07	5.94	5.75	4.58	5.16
3/25/2020	5.26	5.16					
3/26/2020			6.1				
3/27/2020				5.89	5.74	4.51	5.17
9/14/2020	5.51	5.14	6.11	6			
9/15/2020					6.01	4.87	5.56

# Time Series

Constituent: pH (S.U.) Analysis Run 1/6/2021 12:37 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	6.21			4.36	5.95	5.675 (D)	6.18
5/13/2016		4.7	5.55				
8/18/2016	6.24						
8/19/2016						5.65	5.84
8/22/2016		4.68	5.5	4.37	5.96		
10/18/2016			5.46	4.26	5.9	5.71	5.89
10/19/2016	6.2	4.65					
12/7/2016	6.19	4.69			6.03	5.71	5.87
12/8/2016			5.39	4.28			
2/15/2017	6.25						6.04
2/16/2017		4.77	5.32	4.29	6.03	5.7	
4/13/2017	6.21	4.79	5.47	4.24	5.93	5.7	5.85
6/27/2017	6.27						
6/28/2017		4.78	5.5	4.28	6	5.66	5.9
10/12/2017	6.33	4.86	5.57	4.32	6.09	5.73	6.07
3/27/2018	6.26						5.99
3/28/2018		4.74	5.74	4.25	6.08	5.89	
6/7/2018	6.21			4.26	6.1	5.66	5.97
6/8/2018		4.69	5.52				
10/8/2018	6.17				6.14	5.74	5.94
10/9/2018			5.51				
10/18/2018		4.7		4.3			
4/2/2019	6.26	4.72	5.5	4.33	6.09	5.65	5.87
9/17/2019	6.23	4.77	5.55	4.37	6.27		
9/18/2019						5.66	5.97
2/18/2020				4.3	6.06	5.59	5.95
2/19/2020	6.16		5.53				
2/20/2020		4.64					
3/23/2020			5.51	4.19	6.12		
3/24/2020	6.21					5.62	6
3/26/2020		4.74					
9/15/2020	6.42	4.94	5.51	4.3	6.1	5.65	5.89

# Time Series

Constituent: pH (S.U.) Analysis Run 1/6/2021 12:37 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	6.39	6.66	6.35	6.24
8/17/2016	6.28	6.55	6.45	
8/22/2016				6.15
10/17/2016	6.3		6.43	
10/18/2016		6.59		6.11
12/6/2016	6.3	6.51	6.48	
12/7/2016				6.14
2/14/2017	6.31	6.3	6.39	
2/16/2017				5.95
4/12/2017	6.23	6.43	6.35	
4/13/2017				6.09
6/27/2017	6.23	6.56	6.41	6.09
10/11/2017	6.09	6.4		
10/12/2017			6.41	6.16
3/27/2018	6.2	6.6	6.66	
3/28/2018				6.3
6/6/2018	5.99	6.56	6.42	6.12
10/8/2018	6.3			
10/9/2018		6.56	6.51	6.06
4/1/2019		6.57	6.41	6.11
4/2/2019	6.25			
9/16/2019	6.26			6.11
9/17/2019		6.41	6.5	
2/18/2020	6.32	6.35	6.39	
2/19/2020				6.03
3/25/2020	6.31		6.35	6.01
3/26/2020		6.52		
9/14/2020	6.29	6.31	6.56	6.33





# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.005	<0.005	<0.005				
5/12/2016				<0.005	<0.005	0.00965 (J)	<0.005
6/28/2016	<0.005	<0.005	<0.005	<0.005	<0.005	0.0101	<0.005
8/17/2016	<0.005	<0.005					
8/18/2016			0.00031 (J)	<0.005	<0.005	0.0014	0.00053 (J)
10/17/2016	<0.005	<0.005	<0.005	0.0003 (J)	<0.005		
10/18/2016						0.0013	<0.005
12/6/2016	<0.005	<0.005	<0.005	<0.005			
12/7/2016					<0.005	0.0007 (J)	<0.005
2/15/2017	<0.005	<0.005	<0.005	<0.005	0.00066 (J)	0.00075 (J)	
2/16/2017							<0.005
4/12/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
4/13/2017							<0.005
6/27/2017	<0.005	<0.005	<0.005	<0.005	<0.005	0.0013	0.001 (J)
3/27/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/6/2018	<0.005	<0.005	<0.005				
6/7/2018				0.00064 (J)	0.00084 (J)	0.0014	0.0013
10/8/2018			<0.005	<0.005	<0.005		0.0014
10/9/2018	<0.005						
10/16/2018		0.00046 (JD)				0.0021 (D)	
2/20/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034	0.0012 (J)
4/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
4/2/2019							0.0021
9/16/2019		<0.005	<0.005				
9/17/2019	<0.005			<0.005	<0.005	<0.005	<0.005
2/18/2020		<0.005					
2/19/2020	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005	<0.005					
3/26/2020			<0.005				
3/27/2020				<0.005	<0.005	<0.005	<0.005
9/14/2020	<0.005	<0.005	<0.005	<0.005			
9/15/2020					<0.005	<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.005			0.00396 (J)	<0.005	<0.005	<0.005
5/13/2016		0.023	<0.005				
6/29/2016	<0.005		<0.005	0.0053 (J)	<0.005	<0.005	<0.005
6/30/2016		0.0263					
8/18/2016	<0.005						
8/19/2016						<0.005	<0.005
8/22/2016		0.0066	<0.005	0.0012 (J)	<0.005		
10/18/2016			<0.005	<0.005	<0.005	<0.005	<0.005
10/19/2016	<0.005 (D)	0.0057					
12/7/2016	<0.005	0.006			<0.005	<0.005	<0.005
12/8/2016			<0.005	<0.005			
2/15/2017	<0.005						<0.005
2/16/2017		0.0055	<0.005	<0.005	<0.005	<0.005	
4/13/2017	<0.005	0.0049	<0.005	<0.005	<0.005	<0.005	<0.005
6/27/2017	0.00024 (J)						
6/28/2017		0.0047	0.00096 (J)	0.00064 (J)	<0.005	<0.005	0.00033 (J)
3/27/2018	<0.005						<0.005
3/28/2018		0.0085	<0.005	<0.005	<0.005	<0.005	
6/7/2018	0.00064 (J)			0.00066 (J)	<0.005	<0.005	<0.005
6/8/2018		0.014	0.00063 (J)				
10/8/2018	0.00028 (J)				<0.005	<0.005	0.00026 (J)
10/9/2018			0.0005 (J)				
10/18/2018		0.017 (D)		0.00049 (JD)			
2/19/2019						<0.005	0.00021 (J)
2/20/2019	<0.005	0.027	<0.005	0.0011 (J)	<0.005		
4/2/2019	<0.005	0.0075	<0.005	<0.005	<0.005	<0.005	<0.005
9/17/2019	<0.005	0.0036	<0.005	<0.005	<0.005		
9/18/2019						<0.005	<0.005
2/18/2020				<0.005	<0.005	<0.005	<0.005
2/19/2020	<0.005		<0.005				
2/20/2020		0.0024 (J)					
3/23/2020			<0.005	<0.005	<0.005		
3/24/2020	<0.005					<0.005	<0.005
3/26/2020		0.0019 (J)					
9/15/2020	<0.005	0.003 (J)	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.005	<0.005	<0.005	<0.005
6/27/2016	<0.005	<0.005	<0.005	
6/29/2016				<0.005
8/17/2016	<0.005	<0.005	<0.005	
8/22/2016				<0.005
10/17/2016	<0.005		<0.005	
10/18/2016		<0.005		<0.005
12/6/2016	<0.005	<0.005	<0.005	
12/7/2016				<0.005
2/14/2017	<0.005	<0.005	<0.005	
2/16/2017				<0.005
4/12/2017	0.00034 (J)	<0.005	<0.005	
4/13/2017				<0.005
6/27/2017	0.00057 (J)	<0.005	<0.005	<0.005
3/27/2018	<0.005	<0.005	<0.005	
3/28/2018				<0.005
6/6/2018	0.00032 (J)	<0.005	<0.005	<0.005
10/8/2018	<0.005			
10/9/2018		0.00034 (J)	<0.005	<0.005
2/20/2019	<0.005	<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005	<0.005
4/2/2019	<0.005			
9/16/2019	<0.005			<0.005
9/17/2019		<0.005	<0.005	
2/18/2020	<0.005	<0.005	<0.005	
2/19/2020				<0.005
3/25/2020	<0.005		<0.005	<0.005
3/26/2020		<0.005		
9/14/2020	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	0.6766 (J)	0.4053 (J)	<1	0.686 (J)	2.82		0.4716 (J)
5/11/2016						3.75	
6/23/2016	0.94 (J)	0.55 (J)	0.3 (J)				0.46 (J)
6/24/2016					2.3	3	
6/27/2016				0.61 (J)			
8/16/2016	1.2	<1	<1		1.5		<1
8/17/2016				<1		1.8	
10/13/2016	2.9		<1				
10/14/2016		<1		<1	1.2		<1
10/17/2016						1.4	
12/5/2016			<1				
12/6/2016	3.2	<1		<1	1.3	1.4	<1
2/14/2017	0.76 (J)	<1	<1	<1	1.9	1.1	<1
4/10/2017			<1				
4/11/2017	<1	<1		<1	1.3	1	<1
6/26/2017	0.74 (J)	<1	<1		1.5	0.99 (J)	<1
6/27/2017				<1			
10/10/2017	0.76 (J)	<1	<1				
10/11/2017				<1	0.98 (J)	0.93 (J)	<1
6/5/2018	<1	<1	<1	<1			<1
6/6/2018					1.8	0.89 (J)	
12/13/2018	<1	<1	<1	<1	1.4	0.76 (J)	<1
3/28/2019				<1	1.9	1.2	<1
3/29/2019	<1	0.65 (J)	<1				
9/12/2019							<1
9/13/2019			<1				
9/16/2019	0.98 (J)	0.68 (J)		<1	0.92 (J)	1.1	
3/17/2020		0.78 (J)		0.61 (J)	1.6		0.55 (J)
3/18/2020	1.2		0.45 (J)			1.3	
9/14/2020	0.58 (J)	<1	<1	<1	0.82 (J)	0.96 (J)	<1

# Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	7.43	6.31	30.1				
5/12/2016				89.7	194	194	9.9
6/28/2016	6.3	3.7	25	76	200	200	11
8/17/2016	11	2.4					
8/18/2016			24	78	180	190	14
10/17/2016	4.4	2.1	23	73	190		
10/18/2016						190	15
12/6/2016	11	1.9	28	76			
12/7/2016					200	200	17
2/15/2017	1.3	1.2	33	73	190	190	
2/16/2017							17
4/12/2017	2.8	1	30	70	170	170	
4/13/2017							15
6/27/2017	8.2	1.2	33	78	200	200	19
10/11/2017		0.82 (J)	33	72	190		
10/12/2017	1.3					190	20
6/6/2018	2.9	0.89 (J)	41				
6/7/2018				69	190	190	25
10/16/2018		1.3				200	
12/14/2018			43	74	190		
12/17/2018	16						28
4/1/2019	21	0.81 (J)	48	82	180	190	
4/2/2019							31
9/16/2019		0.72 (J)	44				
9/17/2019	2.3			79	200	220	33
3/25/2020	14	0.58 (J)					
3/26/2020			44				
3/27/2020				81	180	190	35
9/14/2020	2.2	0.59 (J)	41	89			
9/15/2020					180	190	36

# Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	125			255	76.9	85.3	131
5/13/2016		484	212				
6/29/2016	120		220	270	78	84	120
6/30/2016		490					
8/18/2016	130						
8/19/2016						81	120
8/22/2016		500	220	270	78		
10/18/2016			210	240	70	83	130
10/19/2016	140 (D)	520					
12/7/2016	160	510			80	85	140
12/8/2016			220	240			
2/15/2017	160						120
2/16/2017		450	210	230	77	83	
4/13/2017	140	380	190	220	70	79	100
6/27/2017	160						
6/28/2017		390	220	240	82	90	120
10/12/2017	170	430	210	210	76	87	120
6/7/2018	170			210	79	94	100
6/8/2018		870	220				
10/18/2018		1200		210			
12/14/2018	180						
12/17/2018			270		88	99	96
4/2/2019	180	1100	240	220	92	100	95
9/17/2019	200	1100	260	220	99		
9/18/2019						100	95
3/23/2020			250	220	120		
3/24/2020	190					100	71
3/26/2020		1000					
9/15/2020	190	860	250	200	130	110	72

# Time Series

Constituent: Sulfate, total (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	0.866 (J)	21.6	61.6	313
6/27/2016	0.86 (J)	17	64	
6/29/2016				280
8/17/2016	<1	19	63	
8/22/2016				300
10/17/2016	<1		64	
10/18/2016		17		280
12/6/2016	<1	18	72	
12/7/2016				280
2/14/2017	1	21	73	
2/16/2017				300
4/12/2017	<1	18	64	
4/13/2017				280
6/27/2017	<1	19	77	340
10/11/2017	<1	15		
10/12/2017			74	310
6/6/2018	<1	14	74	320
12/14/2018	<1	10	72	
12/17/2018				330
4/1/2019		16	67	310
4/2/2019	1.3			
9/16/2019	0.53 (J)			310
9/17/2019		8.7	77	
3/25/2020	0.58 (J)		62	300
3/26/2020		15		
9/14/2020	0.46 (J)	17	81	220

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
5/11/2016						<0.001	
6/23/2016	8E-05 (J)	<0.001	<0.001				<0.001
6/24/2016					0.0001 (J)	<0.001	
6/27/2016				<0.001			
8/16/2016	9.5E-05 (J)	<0.001	<0.001		<0.001		<0.001
8/17/2016				<0.001		<0.001	
10/13/2016	<0.001		<0.001				
10/14/2016		<0.001		<0.001	<0.001		<0.001
10/17/2016						<0.001	
12/5/2016			<0.001				
12/6/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/14/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/10/2017			<0.001				
4/11/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
6/26/2017	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
6/27/2017				<0.001			
3/26/2018	<0.001	<0.001	<0.001		<0.001		
3/27/2018				<0.001		<0.001	<0.001
6/5/2018	<0.001	<0.001	<0.001	<0.001			<0.001
6/6/2018					<0.001	<0.001	
10/5/2018	<0.001	<0.001	<0.001		<0.001		
10/8/2018				<0.001		<0.001	<0.001
2/18/2019	<0.001	<0.001				<0.001	
2/19/2019			<0.001	<0.001	<0.001		<0.001
3/28/2019				<0.001	<0.001	<0.001	<0.001
3/29/2019	<0.001	<0.001	<0.001				
9/12/2019							<0.001
9/13/2019			<0.001				
9/16/2019	<0.001	<0.001		<0.001	<0.001	<0.001	
2/13/2020	<0.001	<0.001	<0.001				
2/17/2020				<0.001			<0.001
2/18/2020					0.00033 (J)	0.00049 (J)	
3/17/2020		<0.001		<0.001	<0.001		<0.001
3/18/2020	0.00049 (J)		<0.001			0.00021 (J)	
9/14/2020	0.00039 (J)	0.00016 (J)	<0.001	<0.001	<0.001	<0.001	<0.001



# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	<0.001	<0.001	<0.001				
5/12/2016				<0.001	<0.001	<0.001	<0.001
6/28/2016	0.0001 (J)	<0.001	<0.001	<0.001	<0.001	9E-05 (J)	<0.001
8/17/2016	<0.001	<0.001					
8/18/2016			<0.001	<0.001	<0.001	<0.001	<0.001
10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2016						<0.001	<0.001
12/6/2016	<0.001	<0.001	<0.001	<0.001			
12/7/2016					<0.001	<0.001	<0.001
2/15/2017	<0.001	<0.001	<0.001	<0.001	<0.001	8.5E-05 (J)	
2/16/2017							<0.001
4/12/2017	<0.001	<0.001	<0.001	<0.001	<0.001	9.5E-05 (J)	
4/13/2017							<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001 (J)	<0.001
3/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/6/2018	<0.001	<0.001	<0.001				
6/7/2018				<0.001	<0.001	<0.001	<0.001
10/8/2018			<0.001	<0.001	<0.001		<0.001
10/9/2018	<0.001						
10/16/2018		<0.001 (D)				0.0001 (JD)	
2/20/2019	<0.001	<0.001	<0.001	<0.001	<0.001	9.8E-05 (J)	<0.001
4/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	9.5E-05 (J)	
4/2/2019							<0.001
9/16/2019		<0.001	<0.001				
9/17/2019	<0.001			<0.001	<0.001	0.00016 (J)	<0.001
2/18/2020		0.00016 (J)					
2/19/2020	0.00075 (J)		0.00034 (J)	0.00022 (J)	0.00018 (J)	0.00031 (J)	<0.001
3/25/2020	<0.001	<0.001					
3/26/2020			<0.001				
3/27/2020				<0.001	0.0011	0.00045 (J)	<0.001
9/14/2020	<0.001	<0.001	0.00023 (J)	<0.001			
9/15/2020					0.00035 (J)	0.00027 (J)	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	<0.001			<0.001	<0.001	<0.001	<0.001
5/13/2016		<0.001	<0.001				
6/29/2016	<0.001		<0.001	0.0002 (J)	<0.001	<0.001	<0.001
6/30/2016		0.0002 (J)					
8/18/2016	<0.001						
8/19/2016						<0.001	<0.001
8/22/2016		0.00015 (J)	<0.001	0.00018 (J)	<0.001		
10/18/2016			<0.001	0.00016 (J)	<0.001	<0.001	<0.001
10/19/2016	<0.001 (D)	0.00012 (J)					
12/7/2016	<0.001	9.5E-05 (J)			<0.001	<0.001	<0.001
12/8/2016			<0.001	0.0001 (J)			
2/15/2017	<0.001						<0.001
2/16/2017		0.00013 (J)	<0.001	0.00014 (J)	<0.001	<0.001	
4/13/2017	<0.001	0.00012 (J)	<0.001	0.00021 (J)	<0.001	<0.001	<0.001
6/27/2017	<0.001						
6/28/2017		0.00013 (J)	<0.001	0.00018 (J)	<0.001	<0.001	<0.001
3/27/2018	<0.001						<0.001
3/28/2018		0.00011 (J)	<0.001	9E-05 (J)	<0.001	<0.001	
6/7/2018	<0.001			0.00014 (J)	<0.001	<0.001	<0.001
6/8/2018		0.00019 (J)	<0.001				
10/8/2018	<0.001				<0.001	<0.001	<0.001
10/9/2018			<0.001				
10/18/2018		0.00019 (JD)		0.00018 (JD)			
2/19/2019						<0.001	<0.001
2/20/2019	<0.001	0.00021 (J)	<0.001	0.00018 (J)	<0.001		
4/2/2019	<0.001	0.00016 (J)	<0.001	0.00017 (J)	<0.001	<0.001	<0.001
9/17/2019	<0.001	0.00025 (J)	<0.001	0.00021 (J)	<0.001		
9/18/2019						<0.001	<0.001
2/18/2020				0.00033 (J)	<0.001	<0.001	<0.001
2/19/2020	<0.001		<0.001				
2/20/2020		0.00066 (J)					
3/23/2020			<0.001	0.00016 (J)	<0.001		
3/24/2020	<0.001					<0.001	<0.001
3/26/2020		0.00029 (J)					
9/15/2020	<0.001	0.00027 (J)	<0.001	0.00028 (J)	<0.001	0.00038 (J)	0.00016 (J)

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	<0.001	<0.001	<0.001	<0.001
6/27/2016	<0.001	<0.001	<0.001	
6/29/2016				<0.001
8/17/2016	<0.001	<0.001	<0.001	
8/22/2016				<0.001
10/17/2016	<0.001		<0.001	
10/18/2016		<0.001		<0.001
12/6/2016	<0.001	<0.001	<0.001	
12/7/2016				<0.001
2/14/2017	<0.001	<0.001	<0.001	
2/16/2017				<0.001
4/12/2017	<0.001	<0.001	<0.001	
4/13/2017				<0.001
6/27/2017	<0.001	<0.001	<0.001	<0.001
3/27/2018	<0.001	<0.001	<0.001	
3/28/2018				<0.001
6/6/2018	<0.001	<0.001	<0.001	<0.001
10/8/2018	<0.001			
10/9/2018		<0.001	<0.001	<0.001
2/20/2019	<0.001	<0.001	<0.001	<0.001
4/1/2019		<0.001	<0.001	<0.001
4/2/2019	<0.001			
9/16/2019	<0.001			<0.001
9/17/2019		<0.001	0.00023 (J)	
2/18/2020	0.00028 (J)	0.00022 (J)	0.0002 (J)	
2/19/2020				0.00027 (J)
3/25/2020	0.00049 (J)		0.00079 (J)	<0.001
3/26/2020		<0.001		
9/14/2020	<0.001	<0.001	<0.001	<0.001

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-4 (bg)	SGWA-5 (bg)
5/10/2016	44	96	110	100	59		64
5/11/2016						91	
6/23/2016	38	91	118				58
6/24/2016					39	78	
6/27/2016				117			
8/16/2016	22	100	110		38		52
8/17/2016				86		100	
10/13/2016	66		120				
10/14/2016		100		80	34		58
10/17/2016						58	
12/5/2016			110				
12/6/2016	54	110		110	70	98	72
2/14/2017	18	76	86	98	32	78	52
4/10/2017			120				
4/11/2017	50	120		110	64	110	78
6/26/2017	60	110	130		64	110	80
6/27/2017				18			
10/10/2017	36	100	110				
10/11/2017				94	42	120	64
6/5/2018	8	74	76	80			50
6/6/2018					46	120	
12/13/2018	16	110	100	4 (J)	4 (J)	94	58
3/28/2019				79	43	110	58
3/29/2019	<10	72	110				
9/12/2019							22
9/13/2019			200				
9/16/2019	17	91		42	19	57	
3/17/2020		100		98	52		30
3/18/2020	25		110			140	
9/14/2020	20	93	95	71	55	110	36

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-10	SGWC-11	SGWC-12	SGWC-13	SGWC-14	SGWC-15	SGWC-16
5/11/2016	68	80	195				
5/12/2016				190	309	298	46
6/28/2016	41	134	200	198	333	337	60
8/17/2016	70	42					
8/18/2016			200	180	320	310	48
10/17/2016	6	24	160	140	320		
10/18/2016						320	60
12/6/2016	40	70	220	110			
12/7/2016					340	270	64
2/15/2017	18	34	200	160	340	310	
2/16/2017							40
4/12/2017	18	36	180	140	300	280	
4/13/2017							76
6/27/2017	50	8	200	170	320	290	50
10/11/2017		56	190	170	340		
10/12/2017	46					330	68
6/6/2018	38	40	260				
6/7/2018				190	340	310	74
10/16/2018		100 (D)				350 (D)	
12/14/2018			190	140	280		
12/17/2018	38						42
4/1/2019	82	33	200	190	330	330	
4/2/2019							73
9/16/2019		<10	200				
9/17/2019	17			170	310	320	59
3/25/2020	59	38					
3/26/2020			200				
3/27/2020				200	330	330	99
9/14/2020	45	39	190	190			
9/15/2020					360	340	90

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/6/2021 12:37 PM

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
5/12/2016	261			386	260	212	288
5/13/2016		728	366				
6/29/2016	323		370	436	311	214	272
6/30/2016		742					
8/18/2016	310						
8/19/2016						230	290
8/22/2016		670	350	290	390		
10/18/2016			340	200	300	190	270
10/19/2016	330 (D)	700					
12/7/2016	370	720			310	230	300
12/8/2016			350	370			
2/15/2017	350						260
2/16/2017		600	340	350	310	200	
4/13/2017	390	640	350	380	300	220	300
6/27/2017	350						
6/28/2017		540	340	320	290	190	250
10/12/2017	380	640	370	350	290	230	280
6/7/2018	360			320	260	210	220
6/8/2018		820	320				
10/18/2018		1200 (D)		370 (D)			
12/14/2018	390						
12/17/2018			250		310	260	30
4/2/2019	400	1700	420	370	300	240	250
9/17/2019	380	1600	400	320	290		
9/18/2019						470	490
3/23/2020			390	330	330		
3/24/2020	430					250	210
3/26/2020		1600					
9/15/2020	440	1500	450	350	390	250	210

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/6/2021 12:37 PM

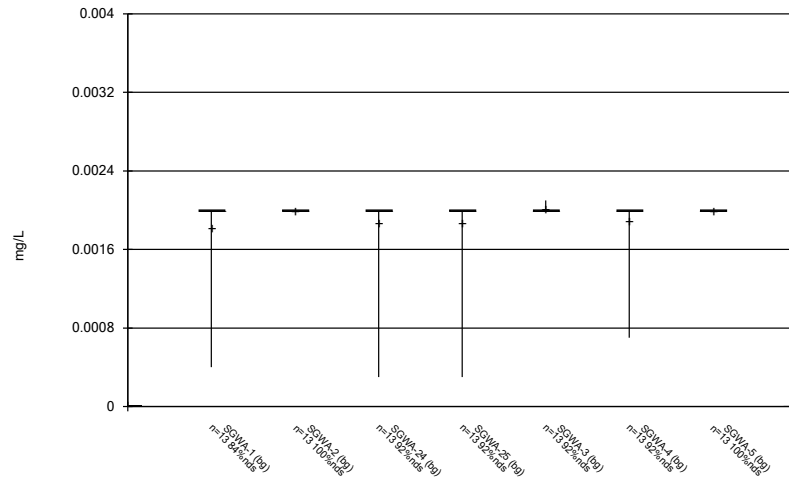
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-9
5/11/2016	104	222	330	527
6/27/2016	112	275	423	
6/29/2016				562
8/17/2016	86	220	410	
8/22/2016				500
10/17/2016	60		370	
10/18/2016		210		490
12/6/2016	90	250	420	
12/7/2016				510
2/14/2017	54	210	370	
2/16/2017				520
4/12/2017	64	200	370	
4/13/2017				590
6/27/2017	40	180	380	550
10/11/2017	82	210		
10/12/2017			400	560
6/6/2018	100	210	410	590
12/14/2018	44	170	390	
12/17/2018				510
4/1/2019		200	370	580
4/2/2019	91			
9/16/2019	76			550
9/17/2019		140	380	
3/25/2020	94		360	540
3/26/2020		180		
9/14/2020	99	200	360	470

FIGURE B.

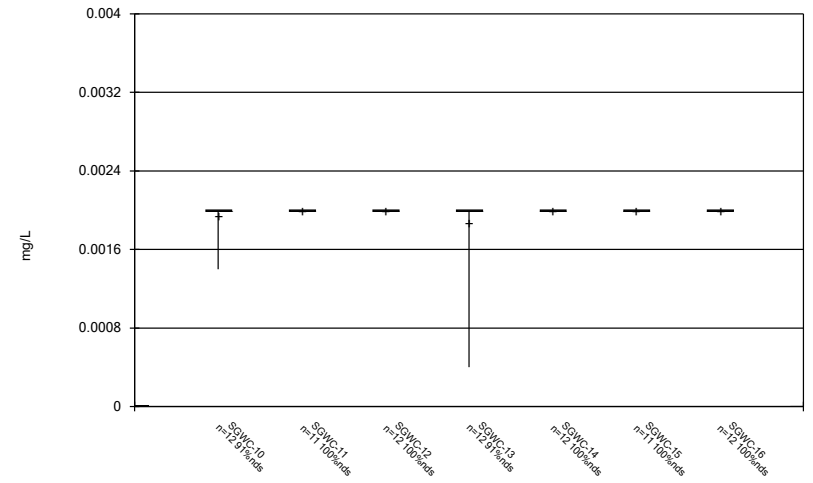


### Box & Whiskers Plot



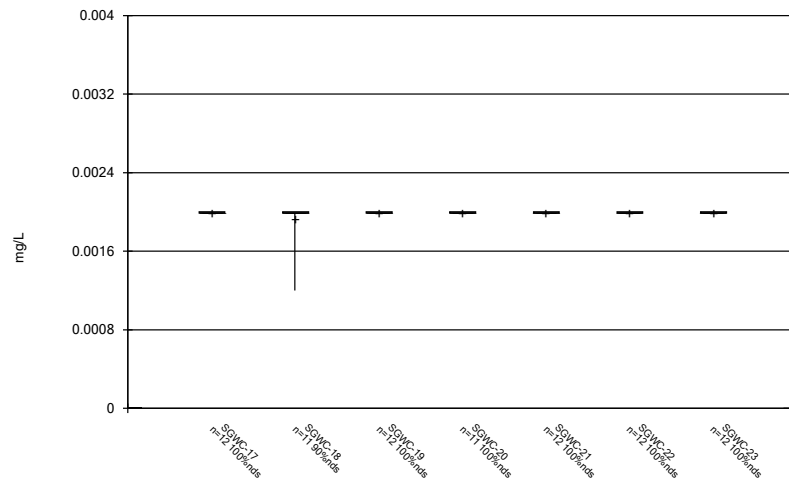
Constituent: Antimony Analysis Run 1/6/2021 12:39 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



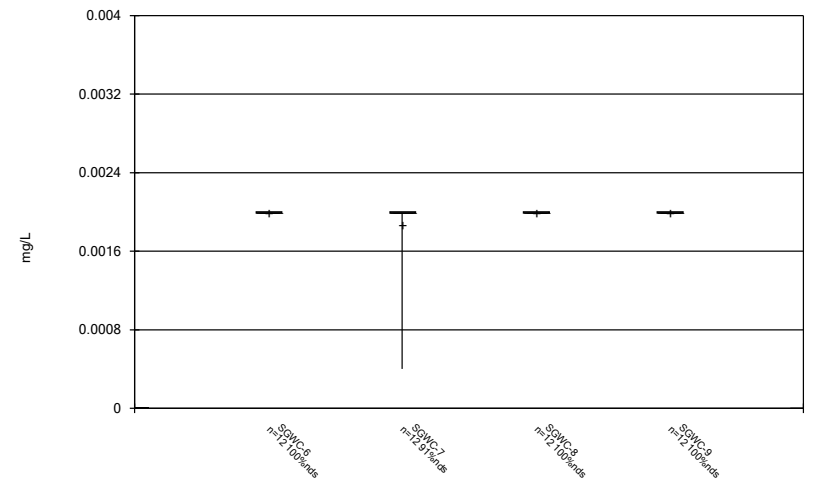
Constituent: Antimony Analysis Run 1/6/2021 12:39 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



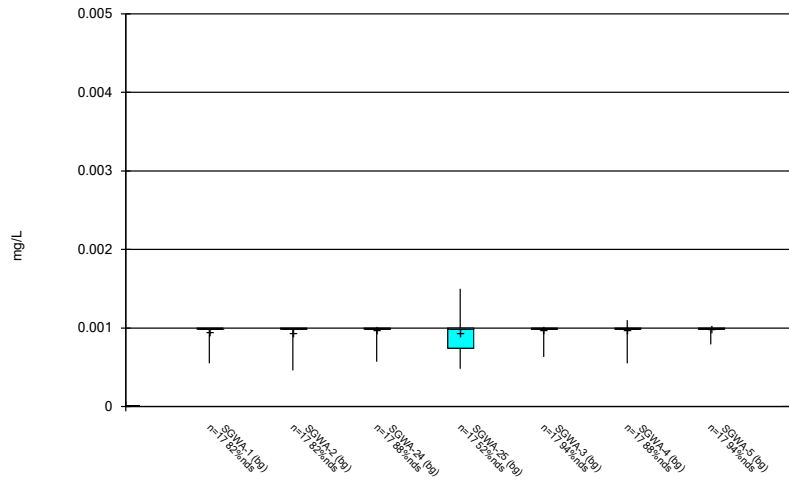
Constituent: Antimony Analysis Run 1/6/2021 12:39 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



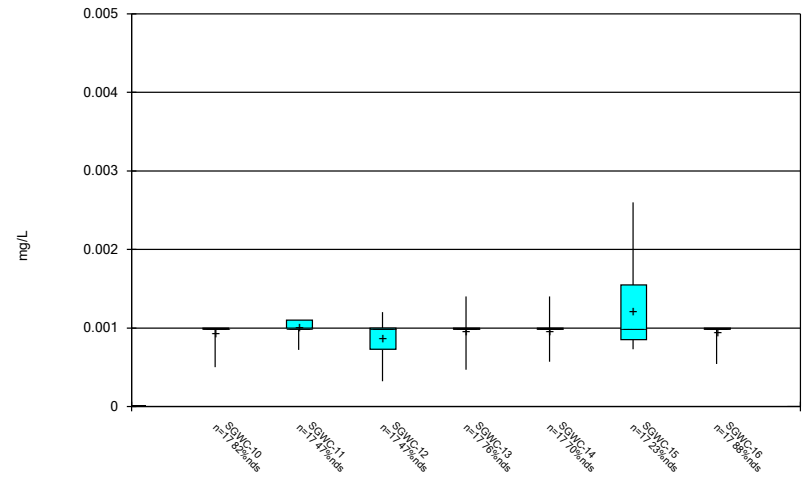
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Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



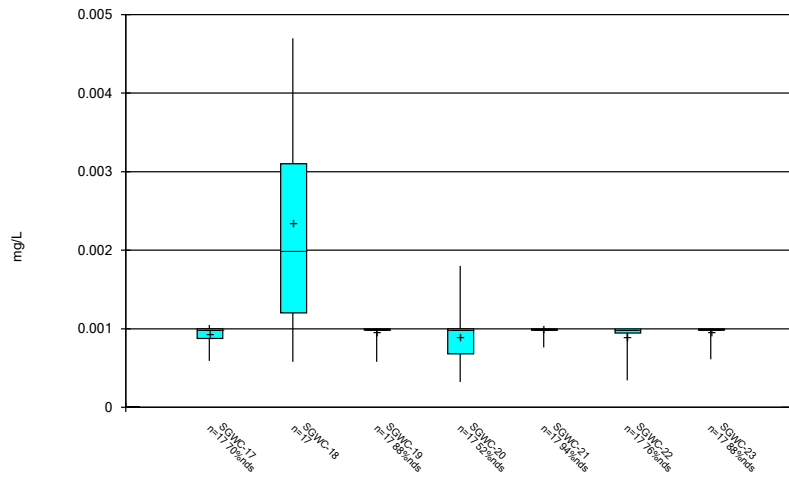
Constituent: Arsenic Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



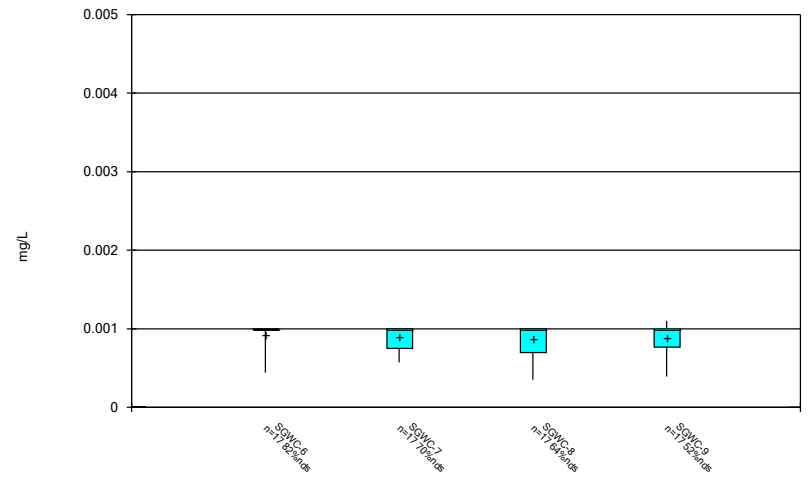
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



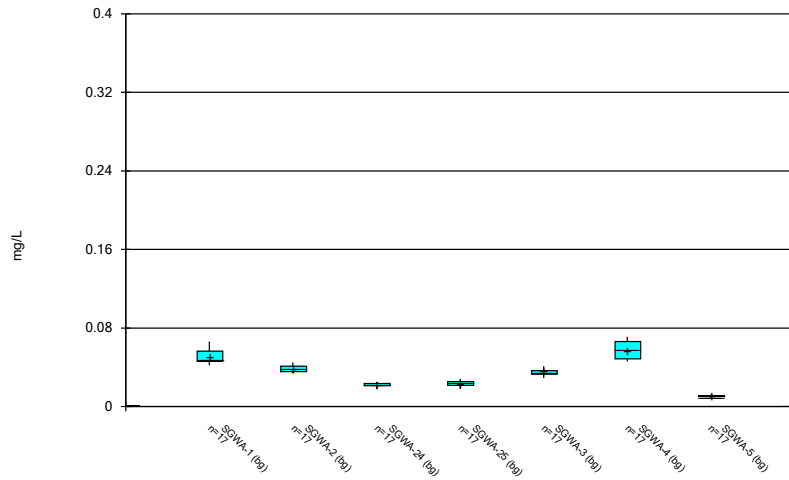
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



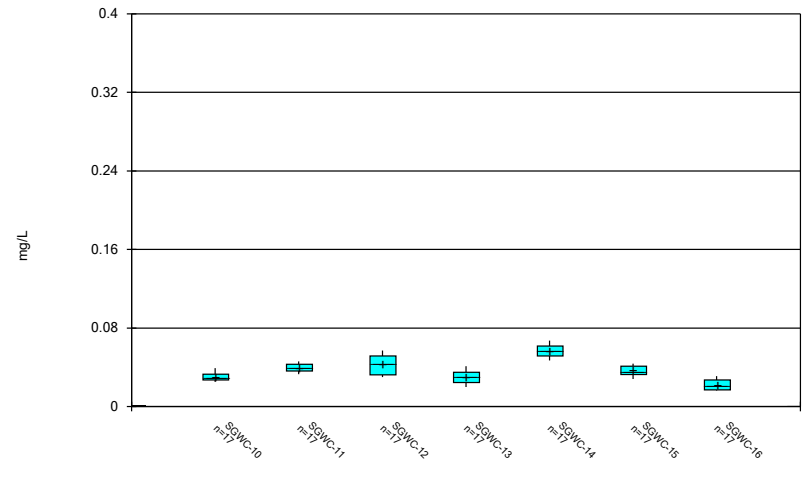
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



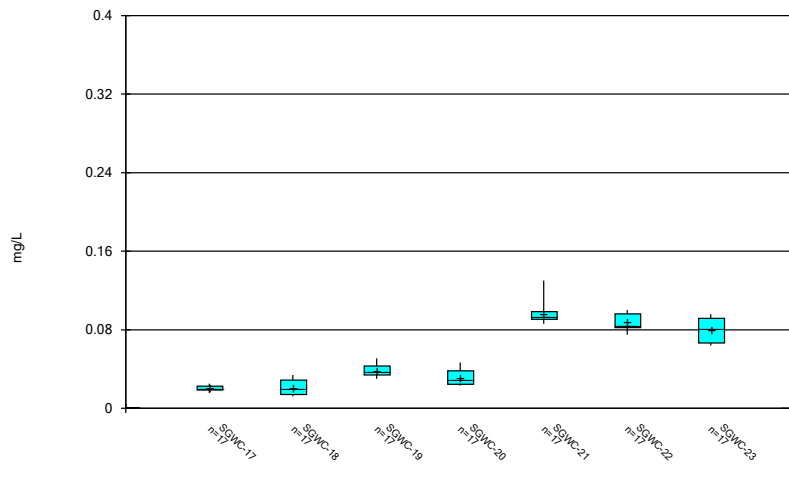
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



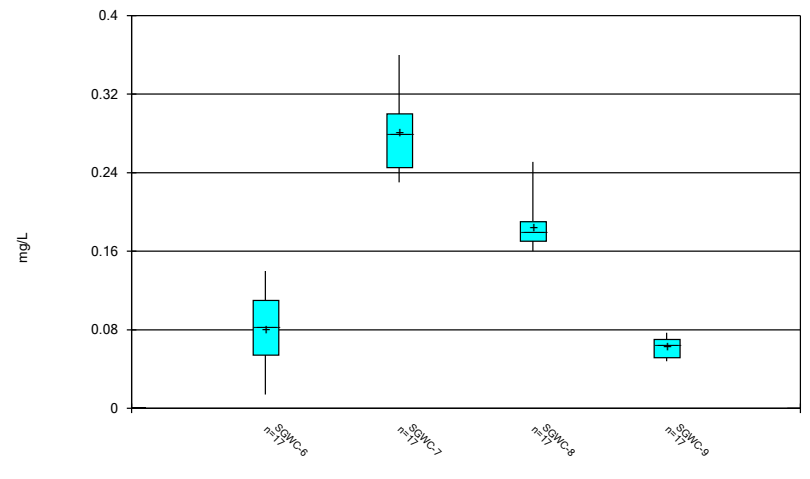
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



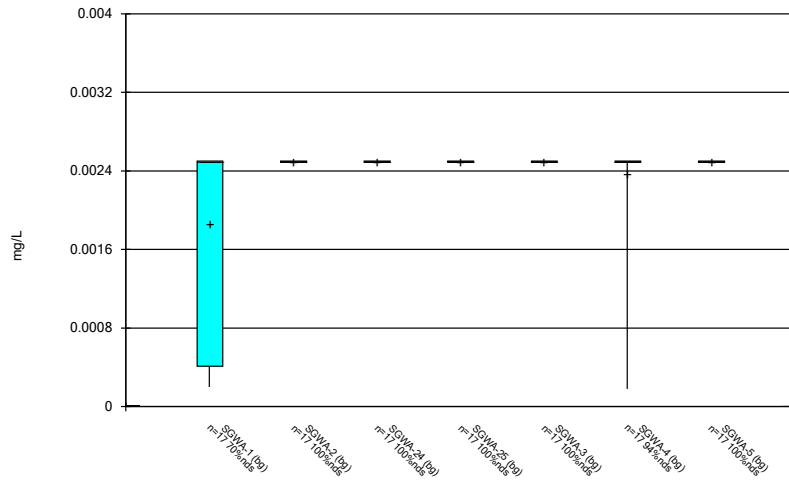
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



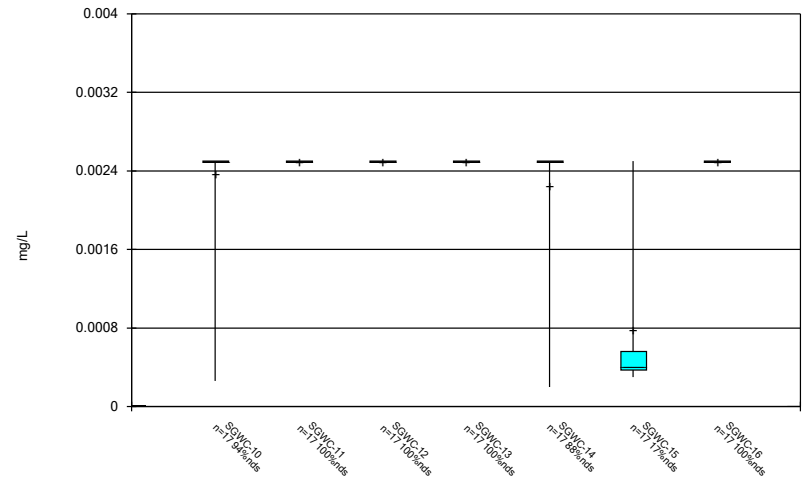
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



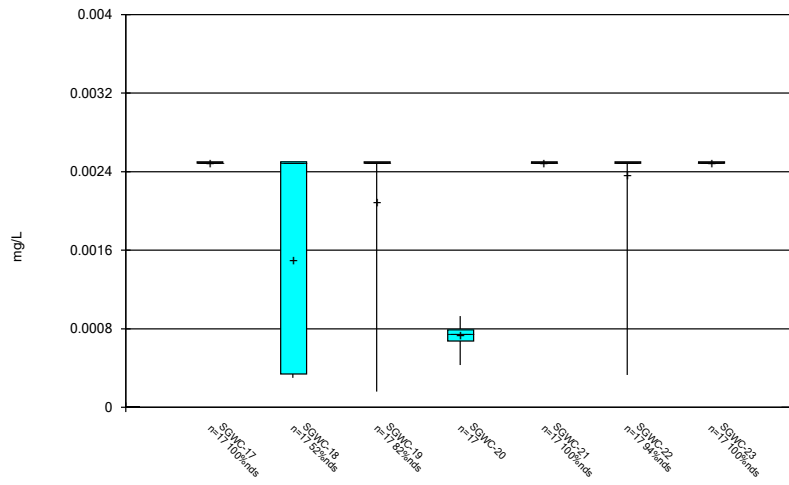
Constituent: Beryllium Analysis Run 1/6/2021 12:39 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



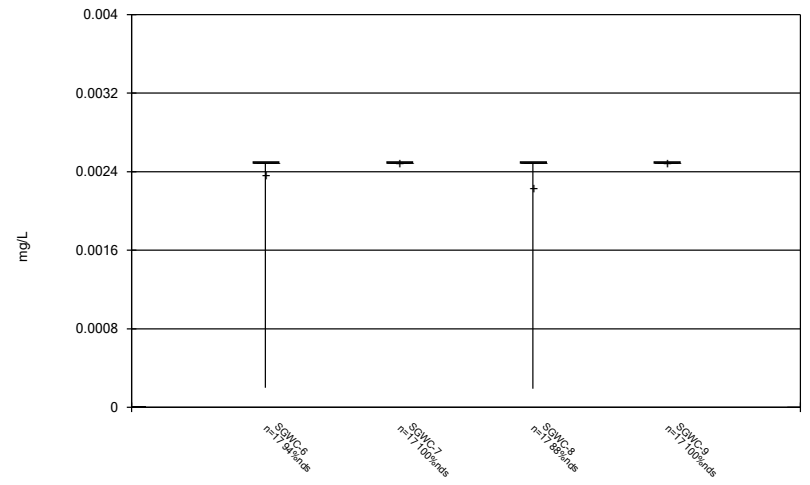
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Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



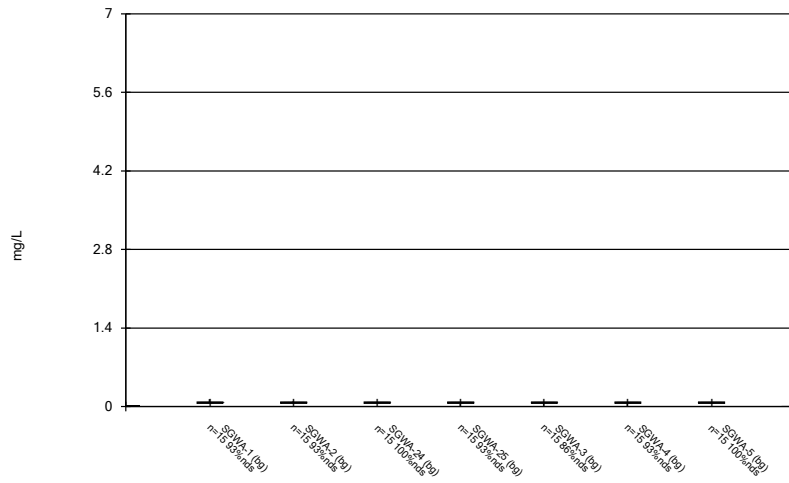
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Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



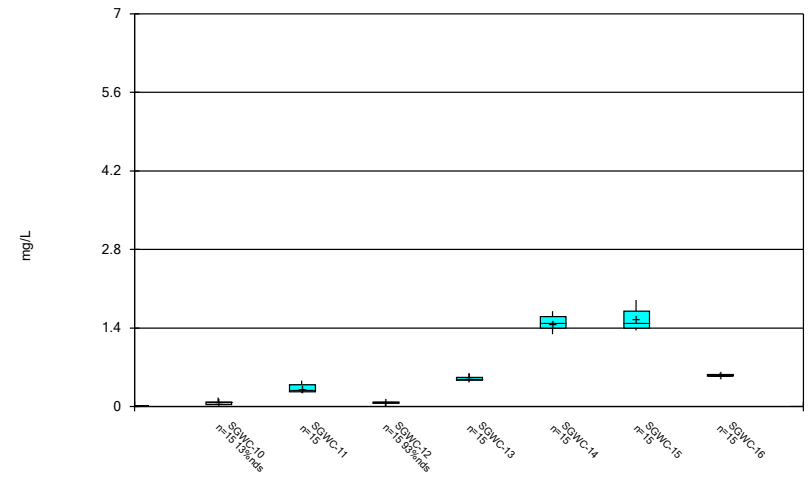
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Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



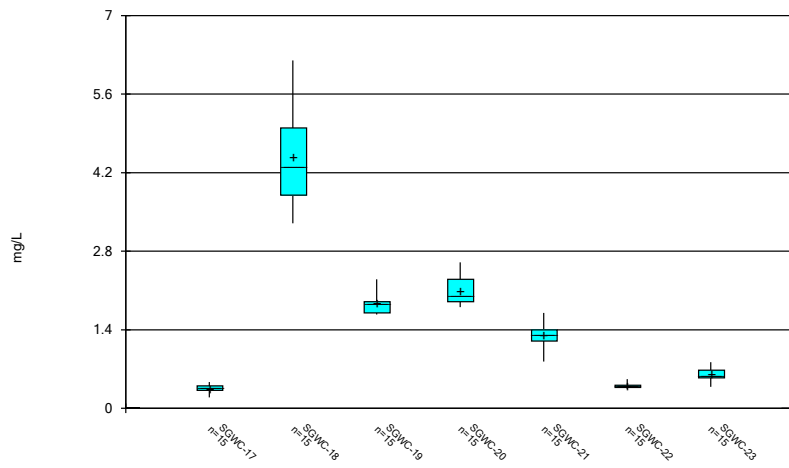
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



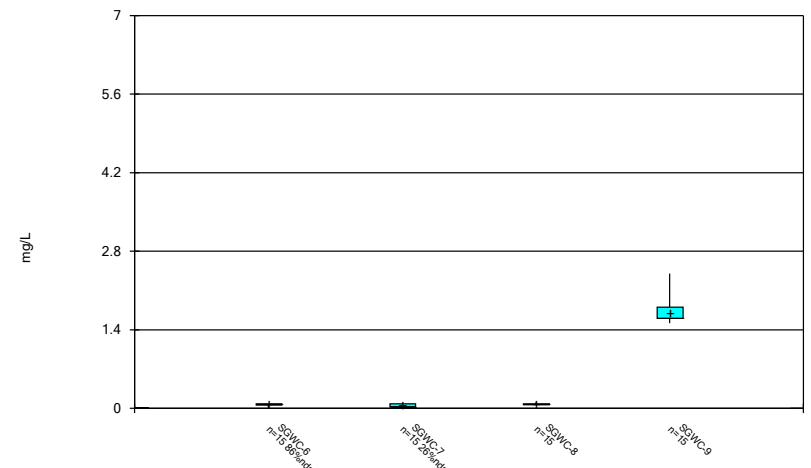
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



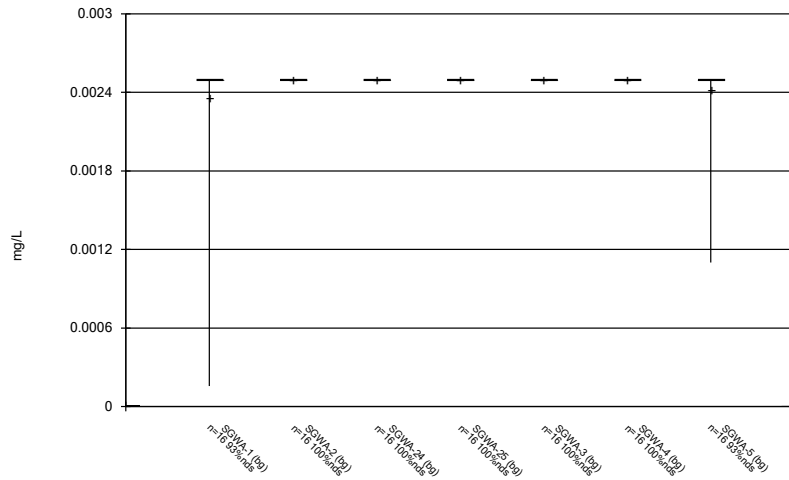
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



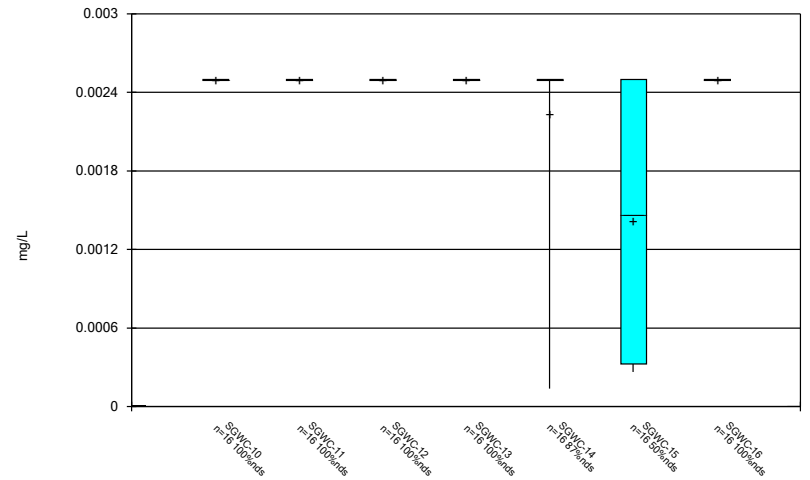
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



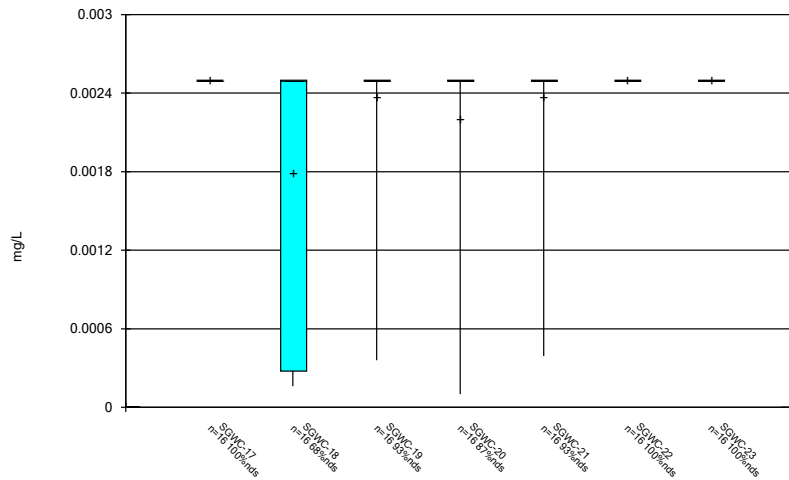
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



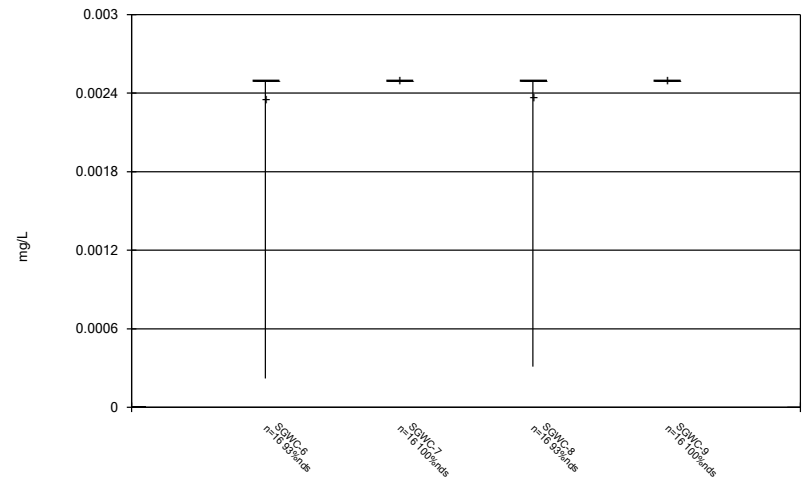
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



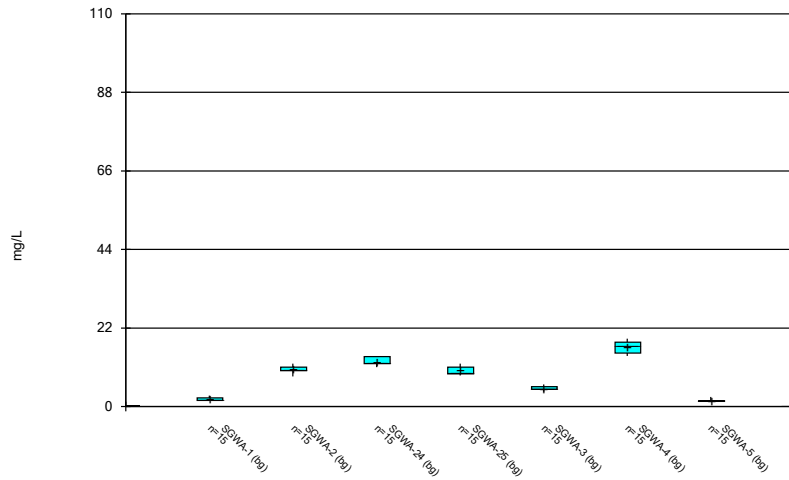
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



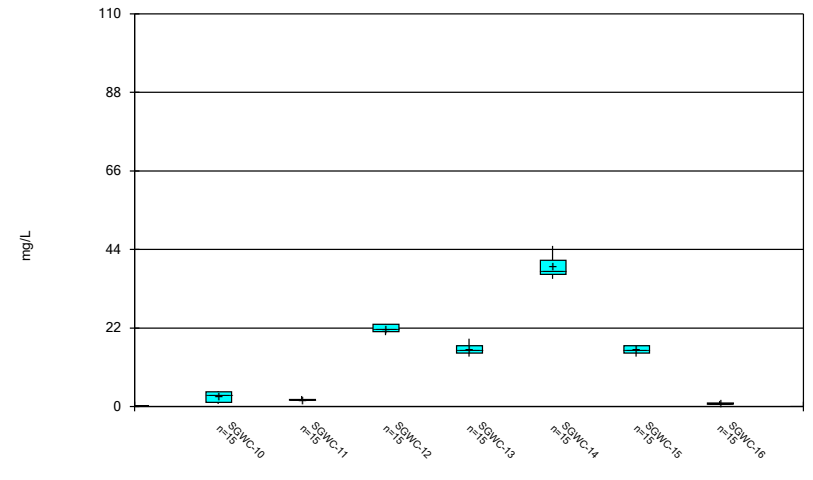
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



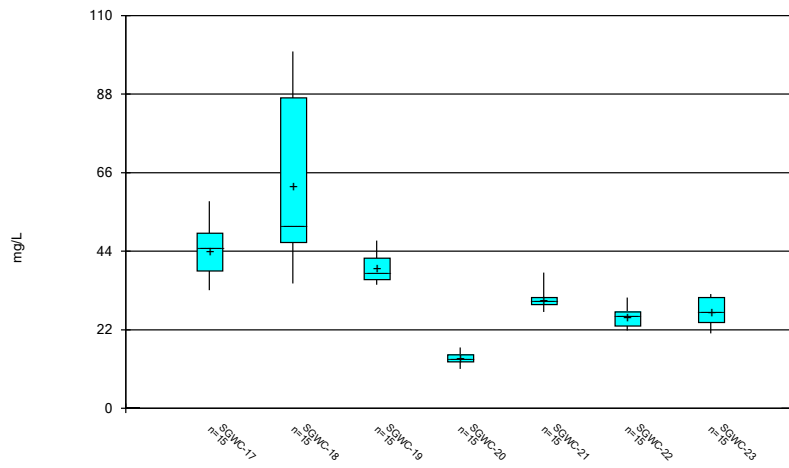
Constituent: Calcium, total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



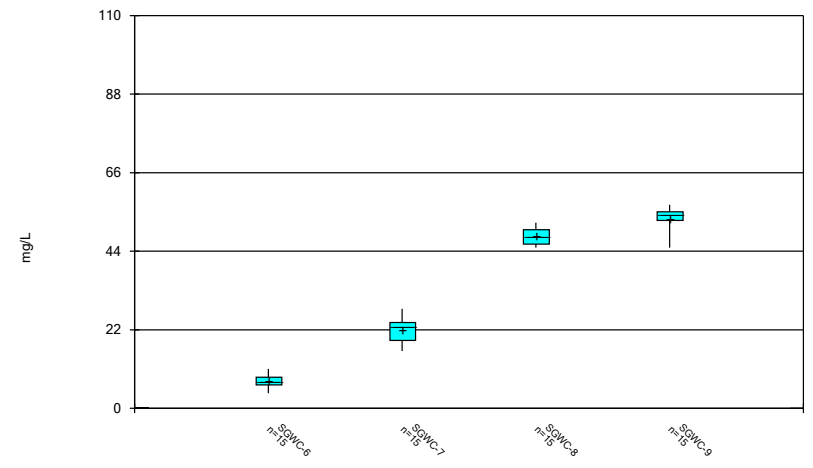
Constituent: Calcium, total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



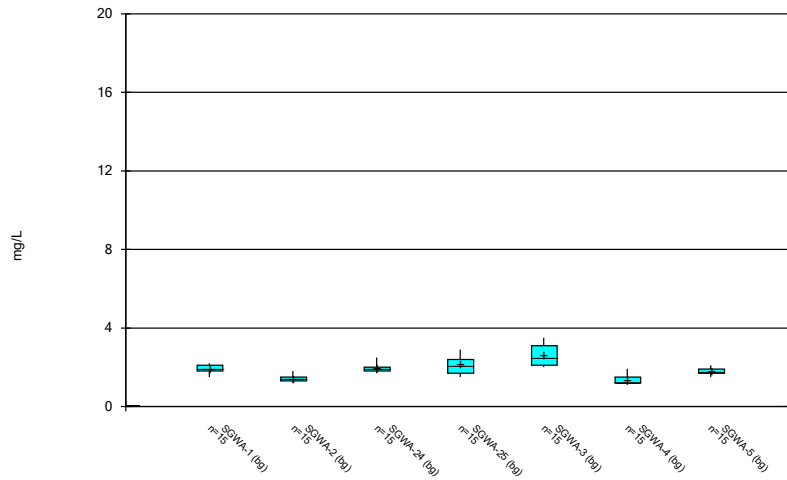
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



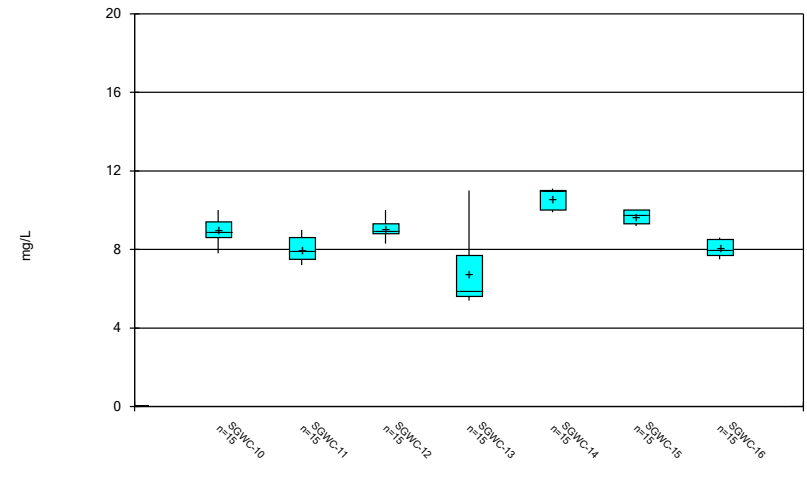
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



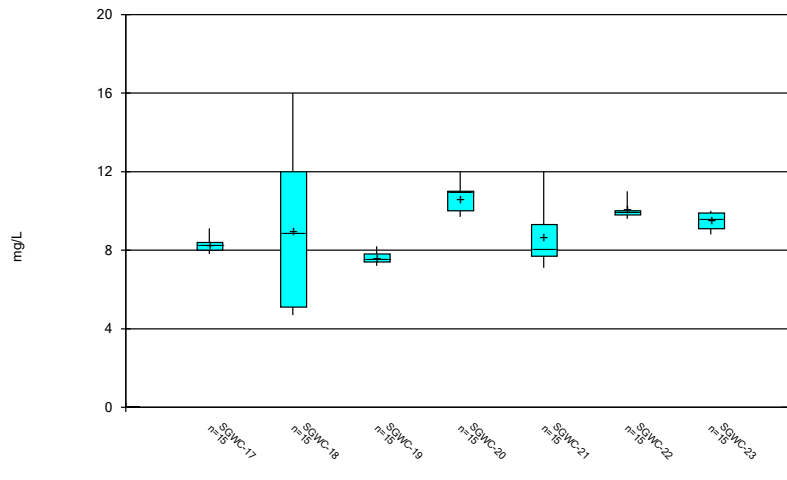
Constituent: Chloride, Total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



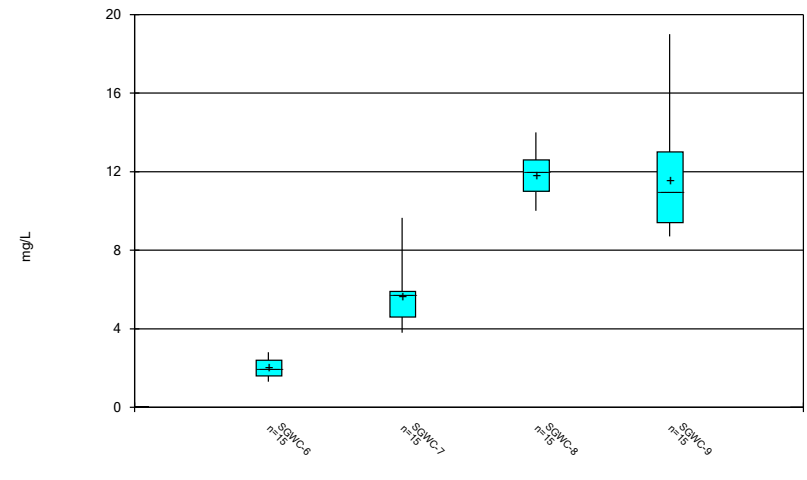
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

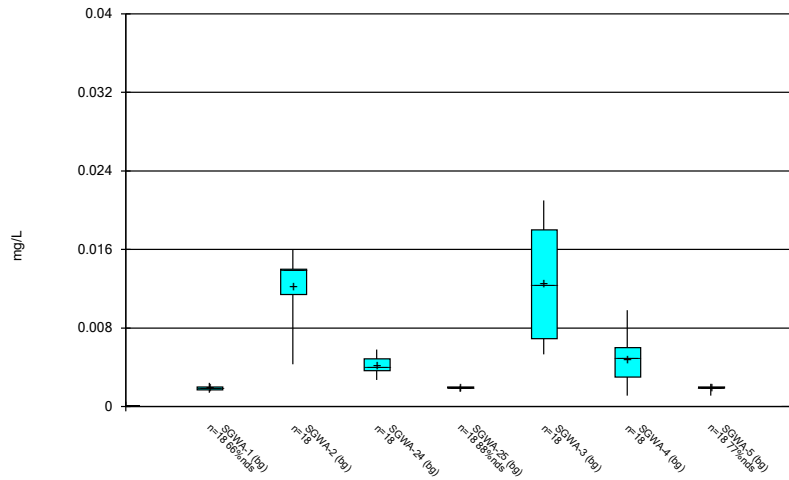
### Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

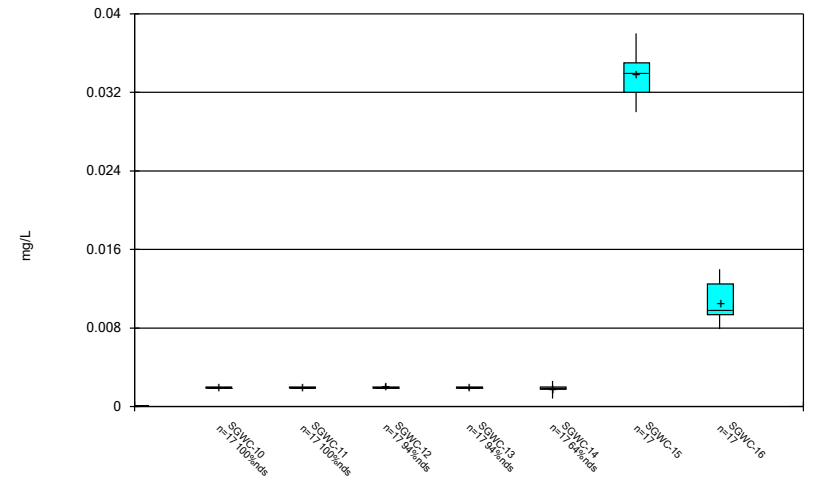


Box & Whiskers Plot



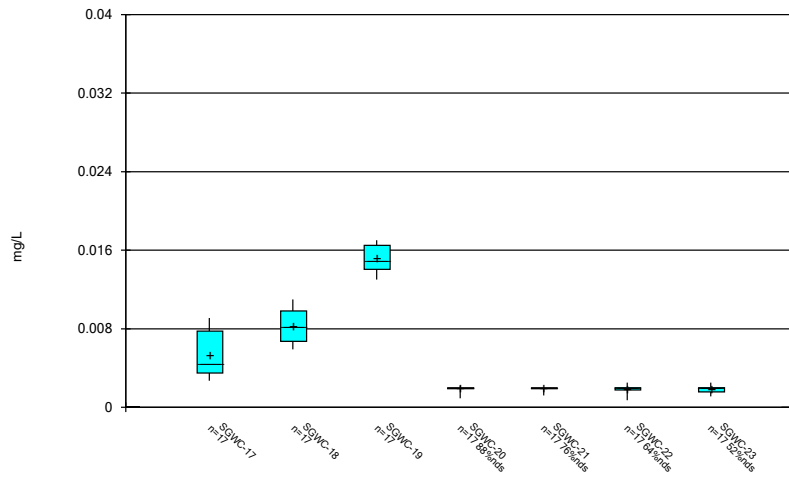
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



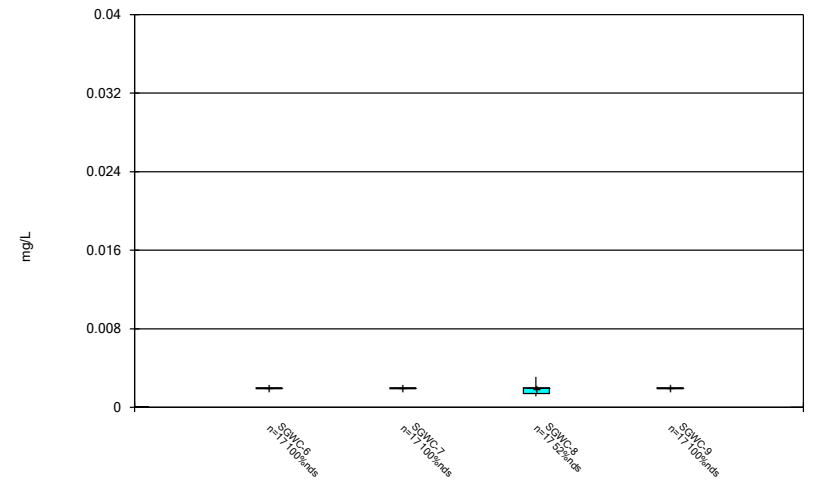
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



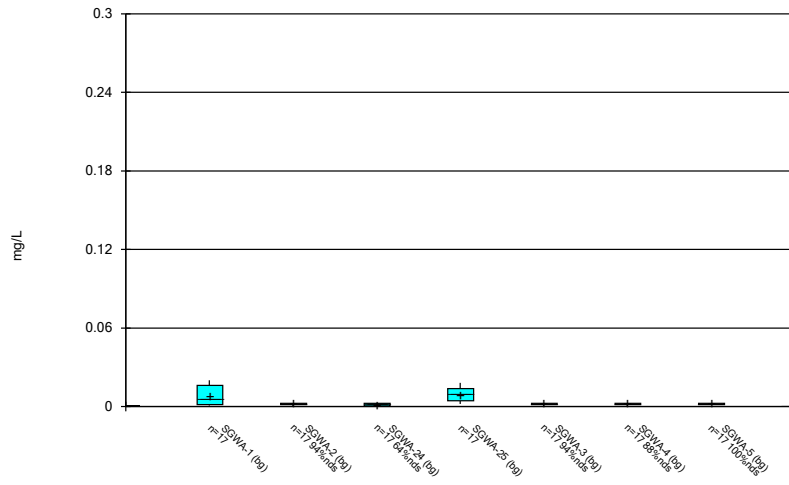
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



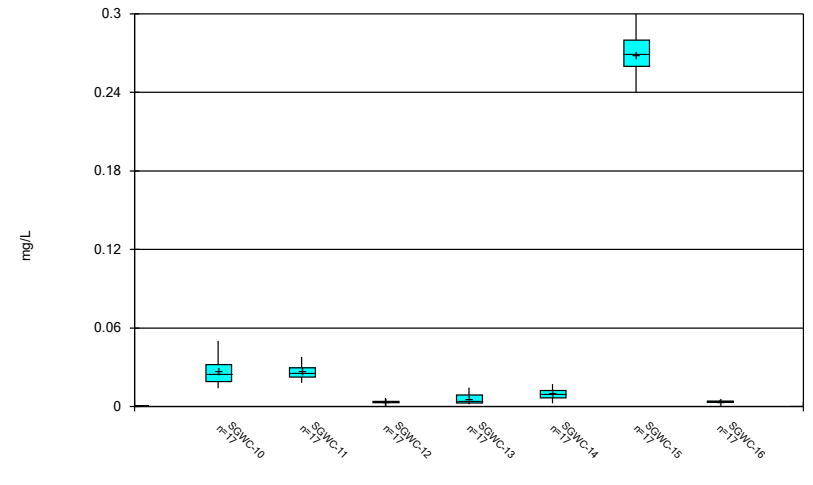
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



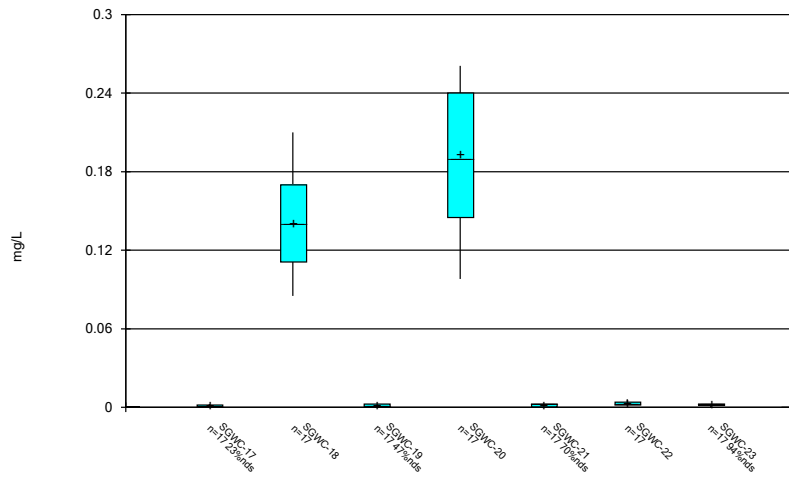
Constituent: Cobalt Analysis Run 1/6/2021 12:39 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



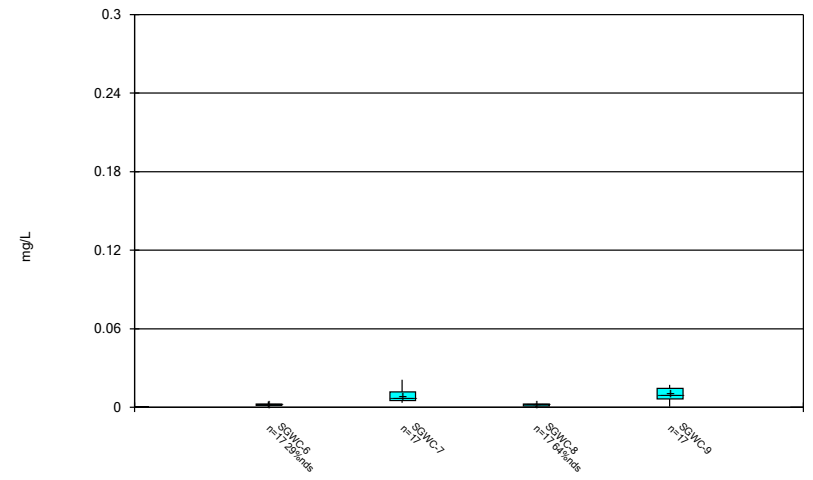
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Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



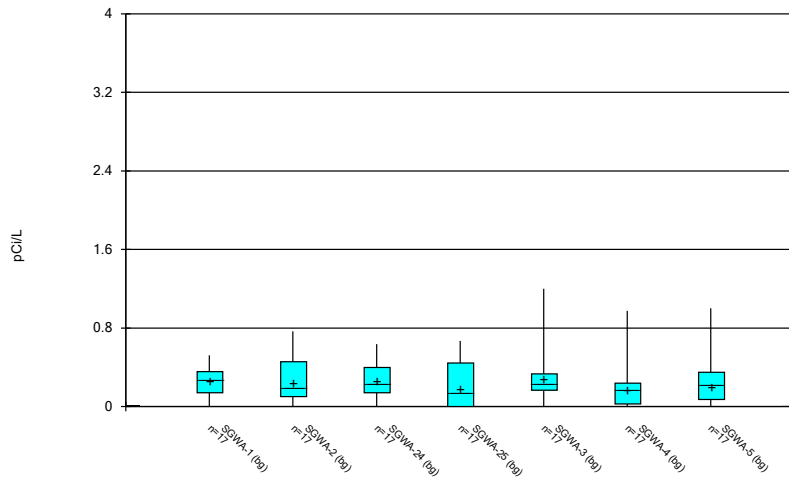
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Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



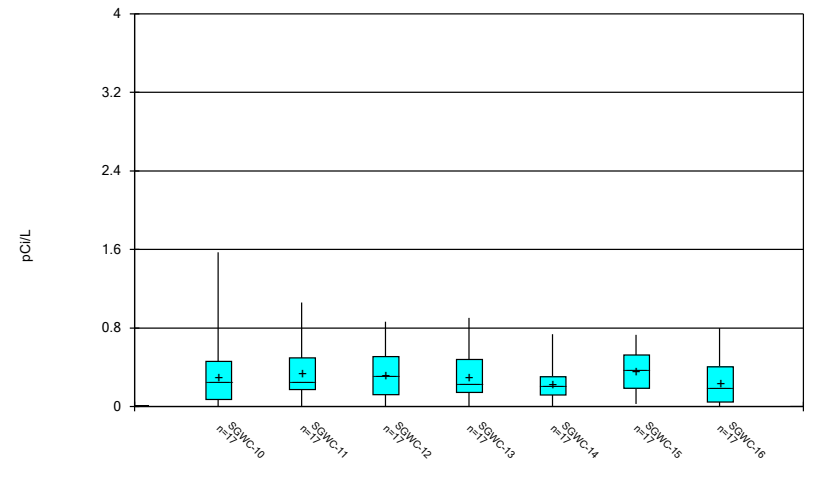
Constituent: Cobalt Analysis Run 1/6/2021 12:39 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



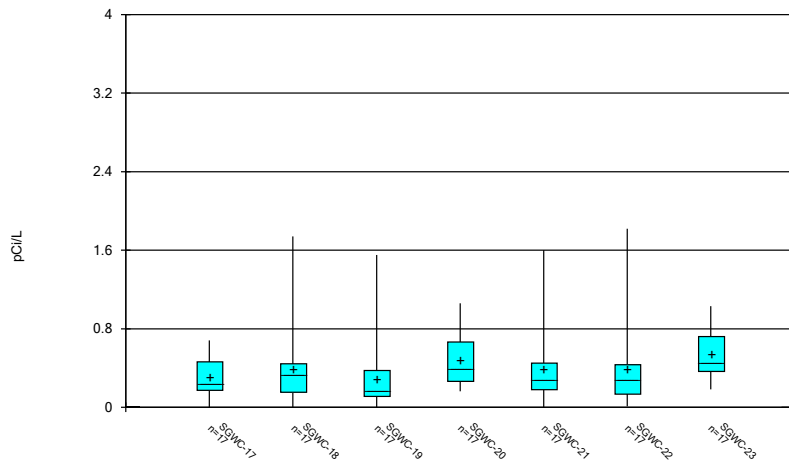
Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



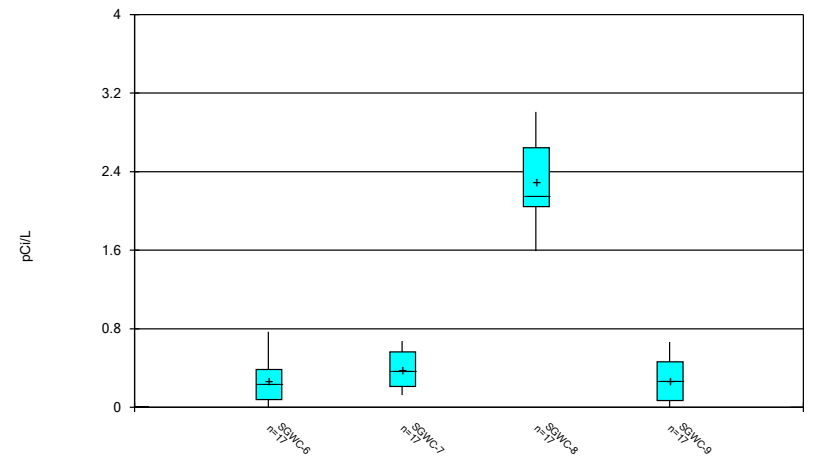
Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



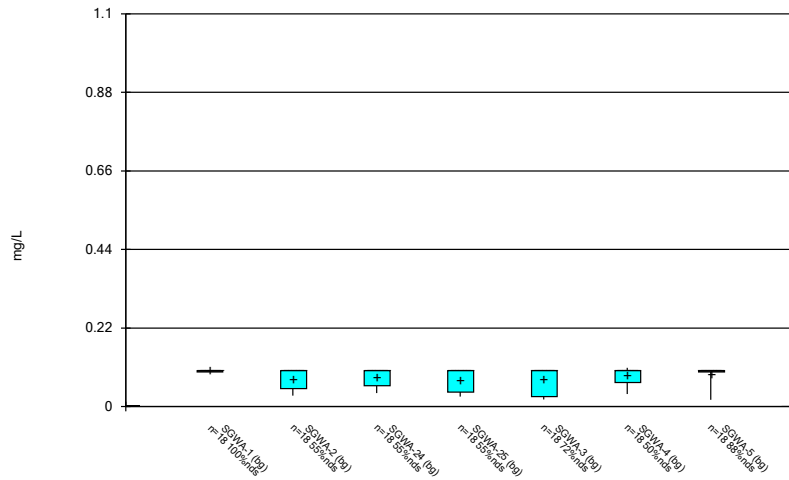
Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



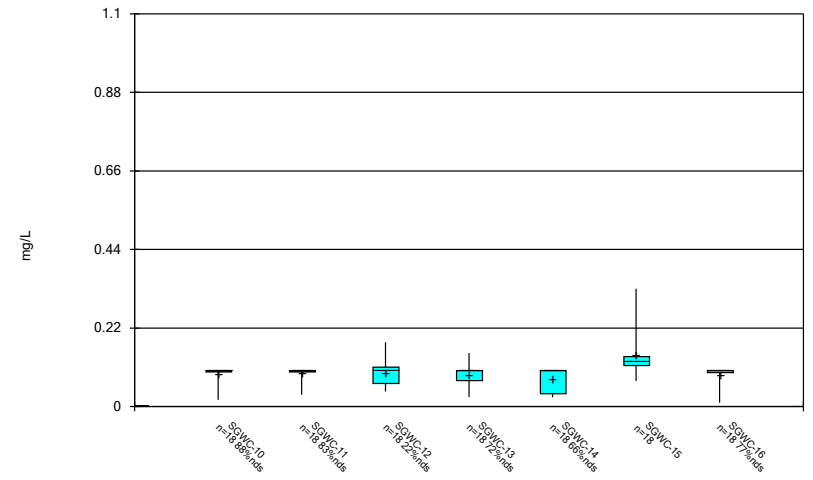
Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



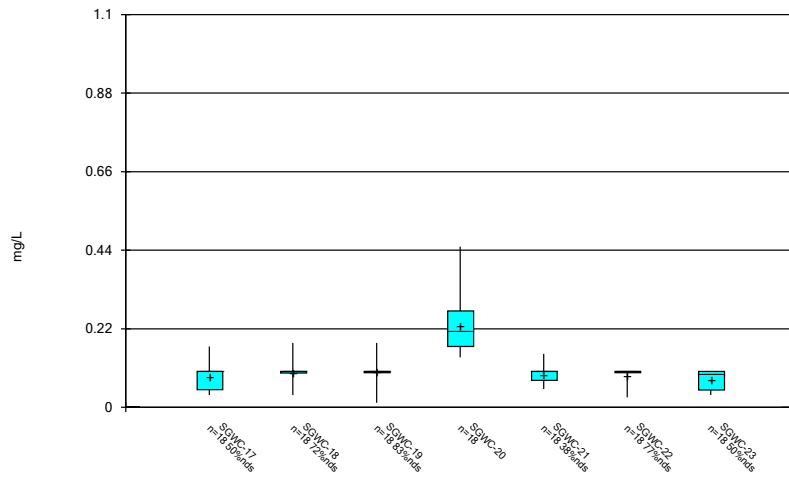
Constituent: Fluoride, total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



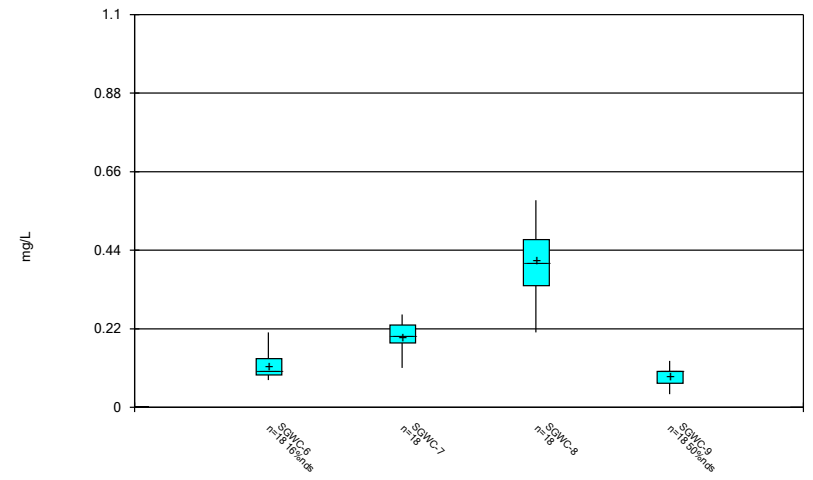
Constituent: Fluoride, total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



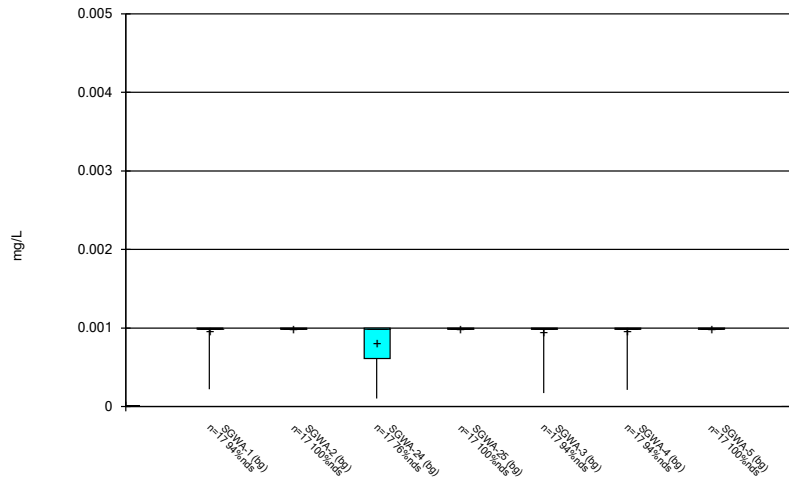
Constituent: Fluoride, total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



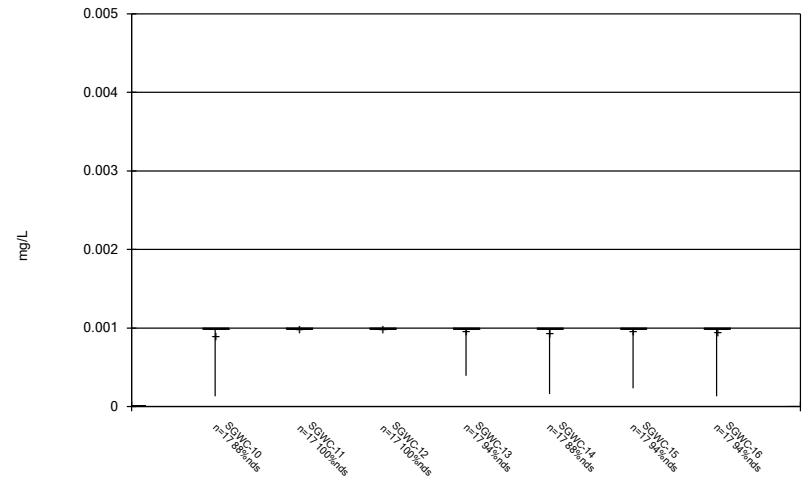
Constituent: Fluoride, total Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



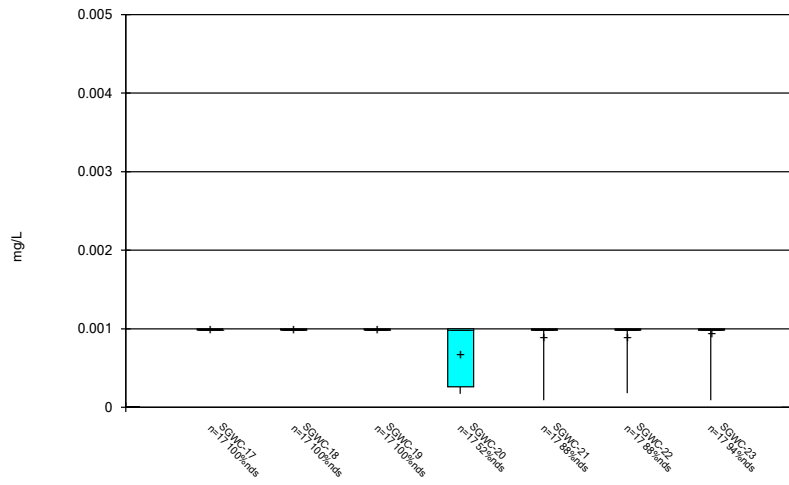
Constituent: Lead Analysis Run 1/6/2021 12:39 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



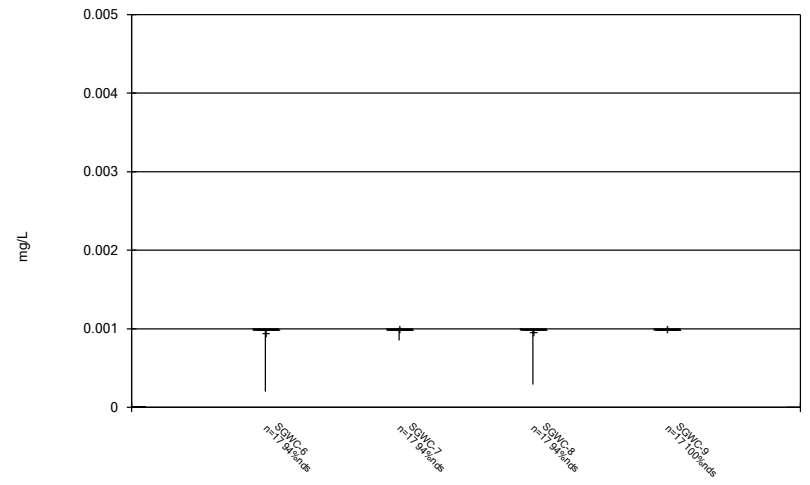
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



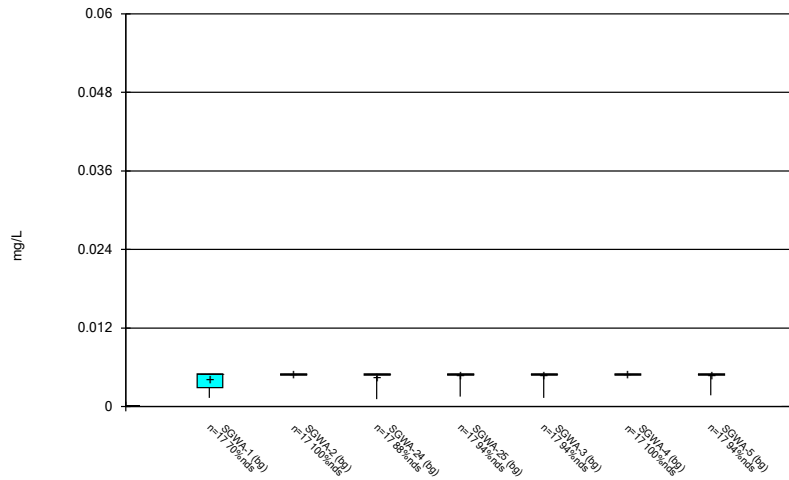
Constituent: Lead Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



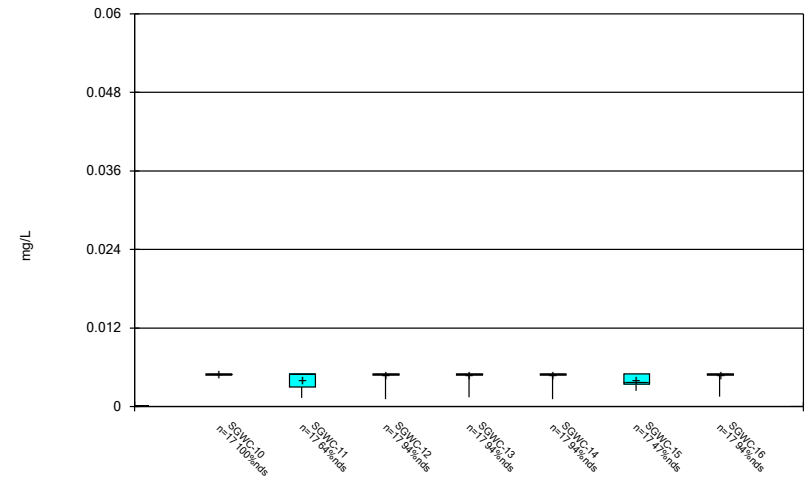
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



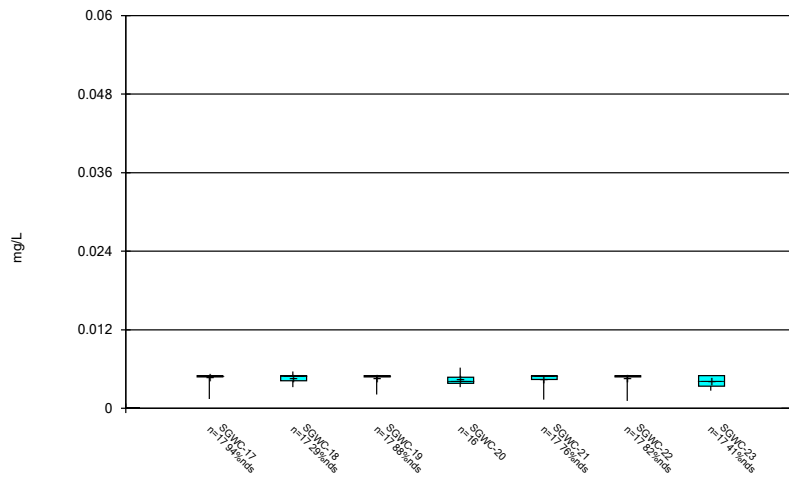
Constituent: Lithium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



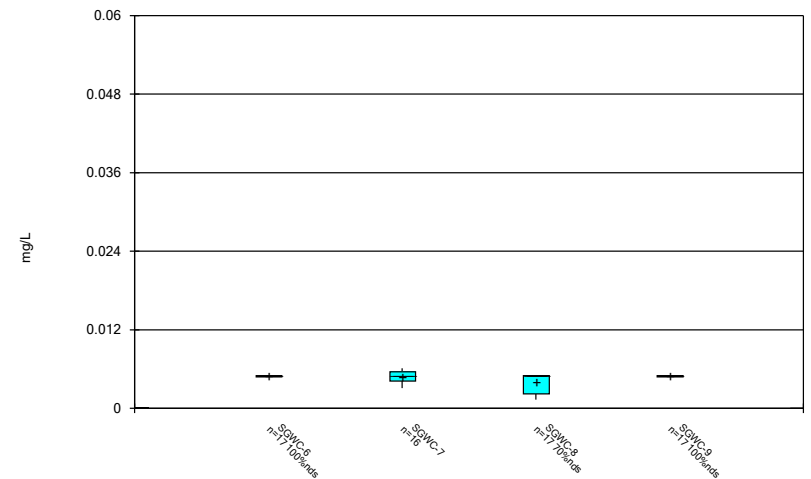
Constituent: Lithium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



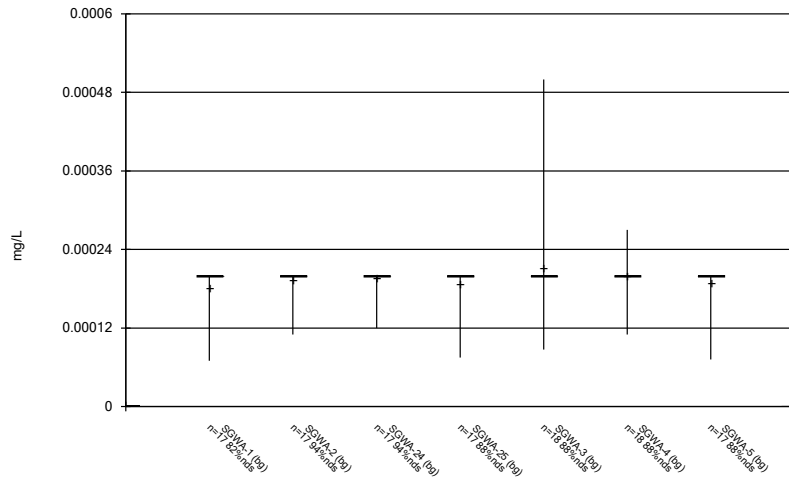
Constituent: Lithium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



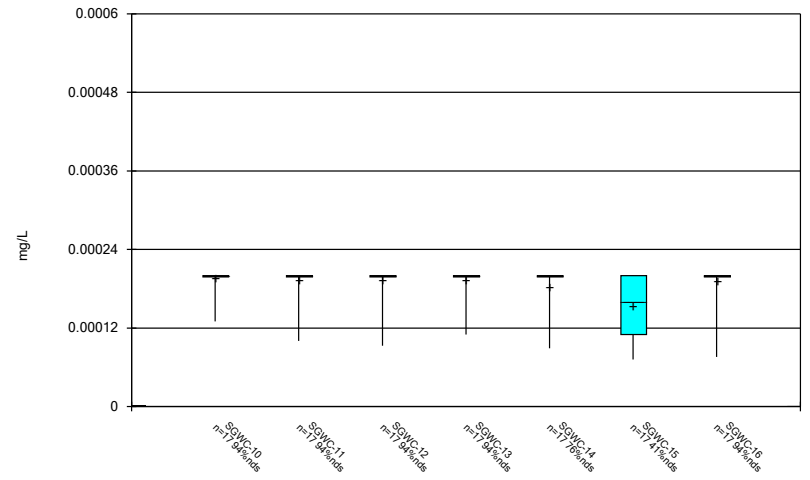
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



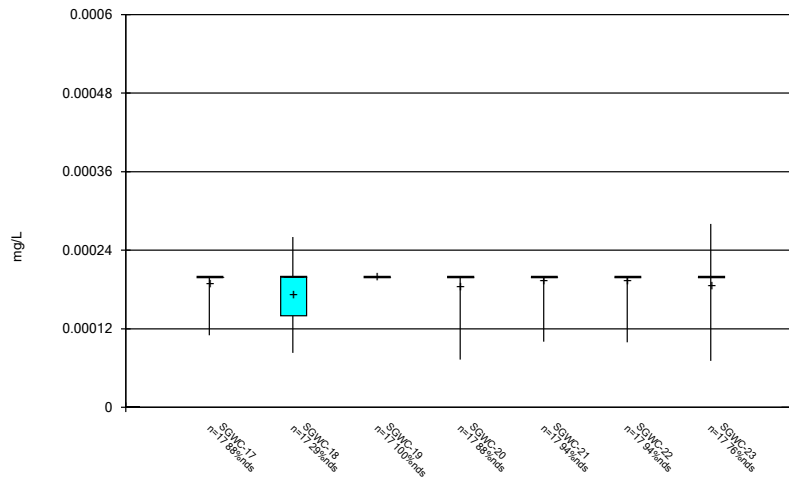
Constituent: Mercury Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



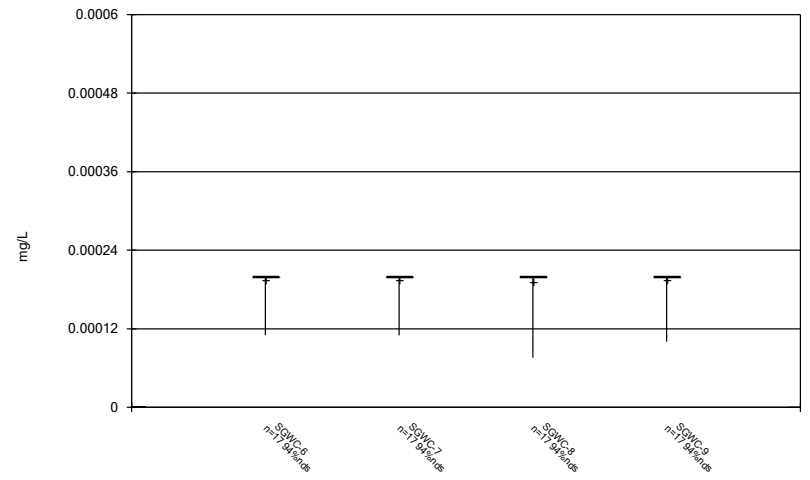
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



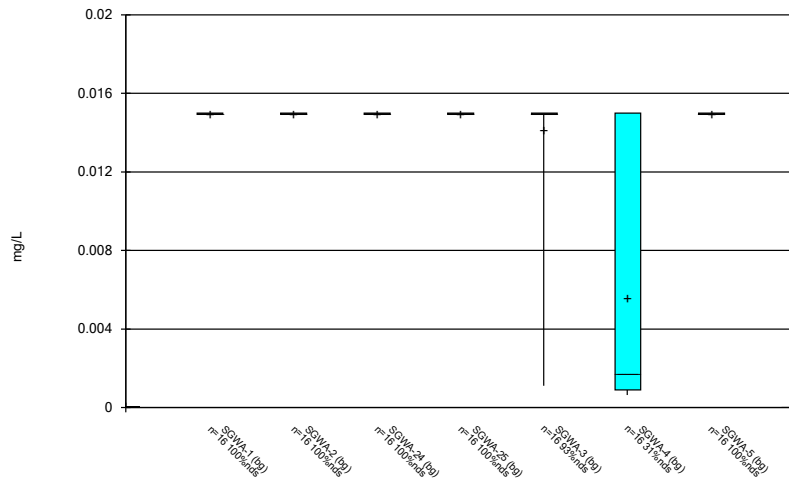
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 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



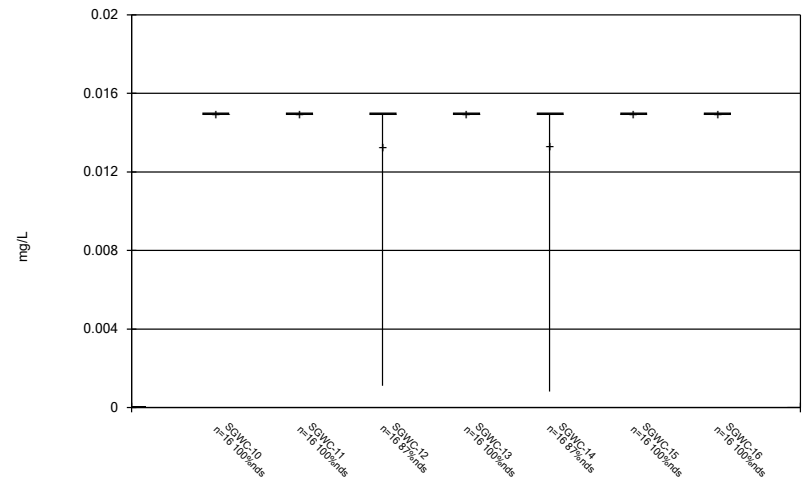
Constituent: Mercury Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



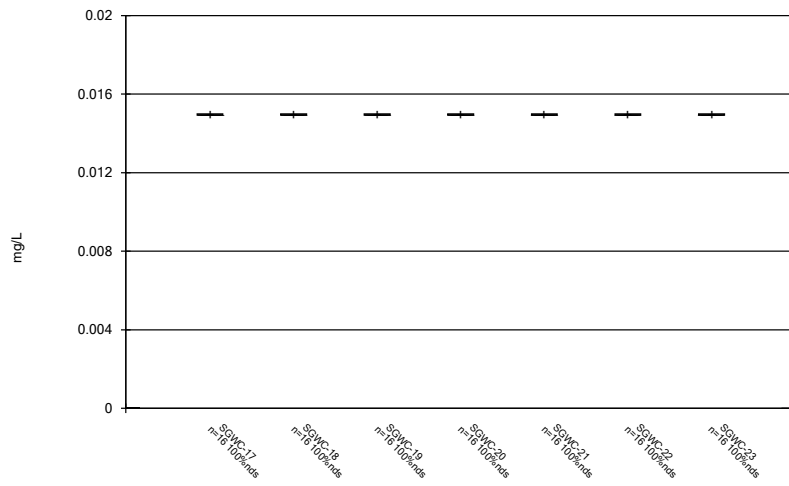
Constituent: Molybdenum Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



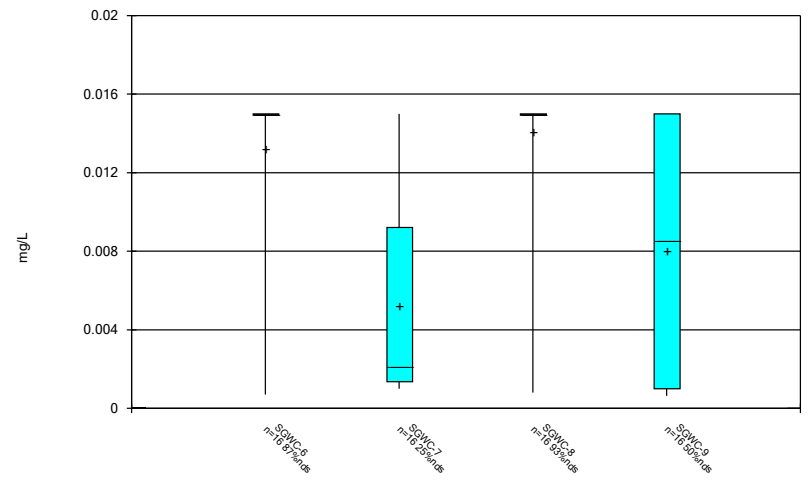
Constituent: Molybdenum Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

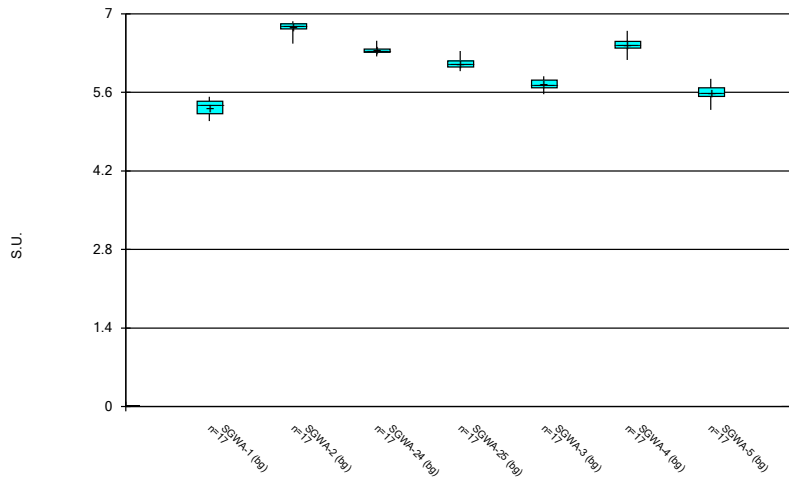
### Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

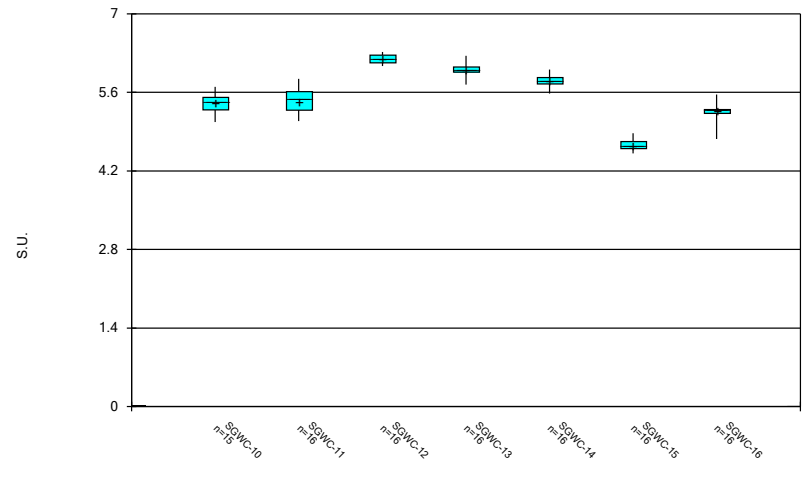


### Box & Whiskers Plot



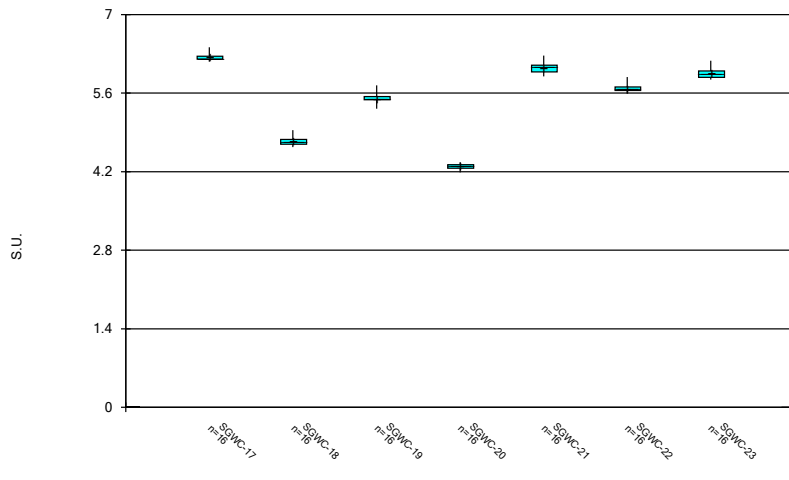
Constituent: pH Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



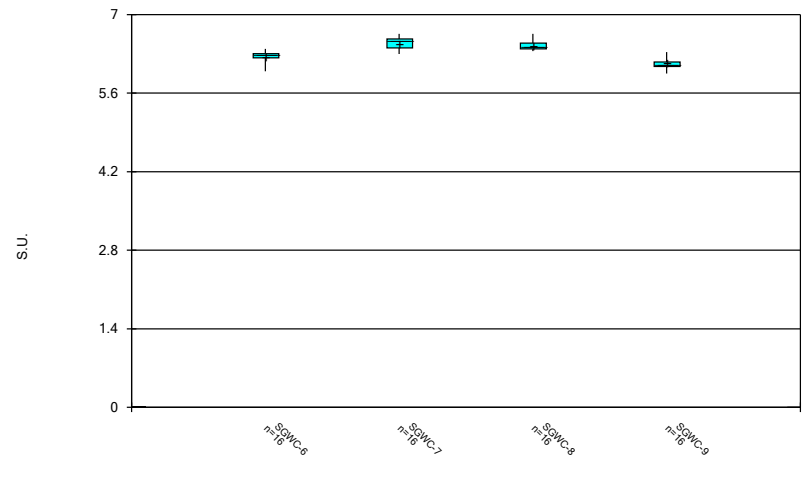
Constituent: pH Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



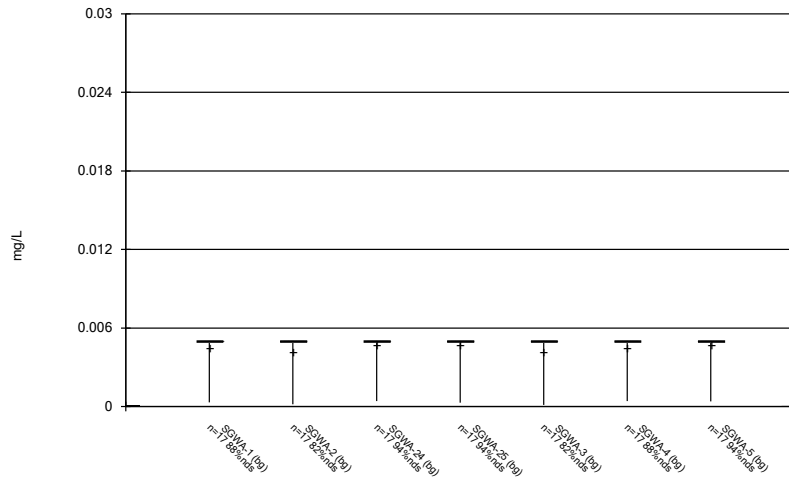
Constituent: pH Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



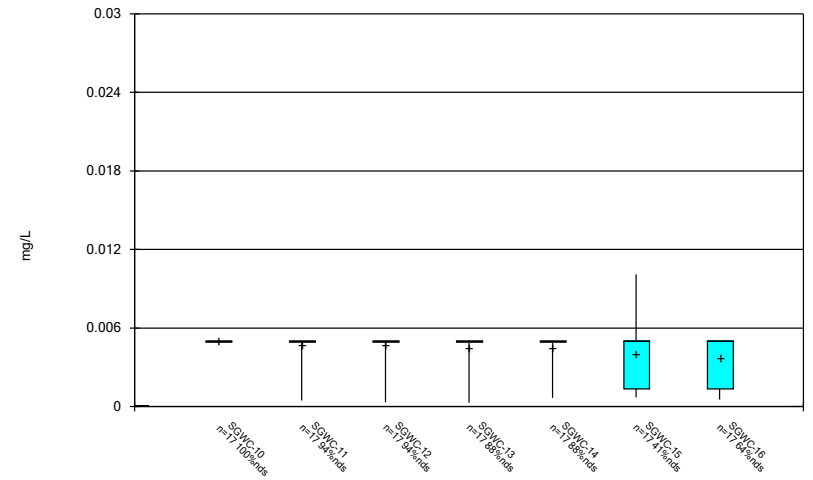
Constituent: pH Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



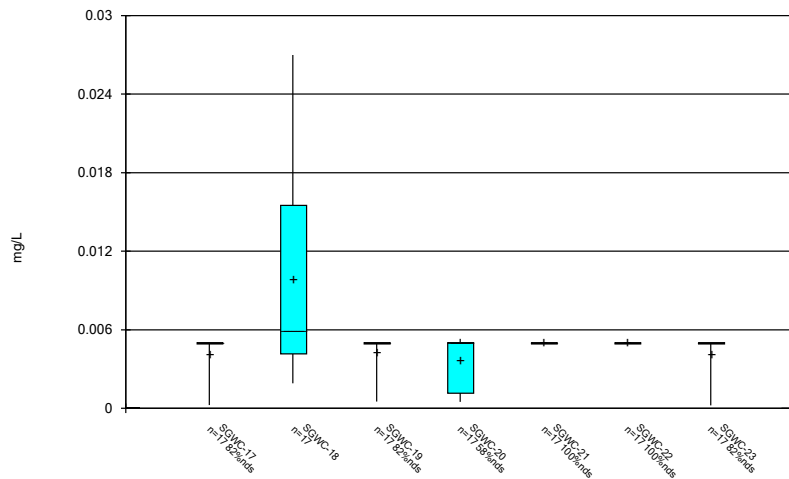
Constituent: Selenium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



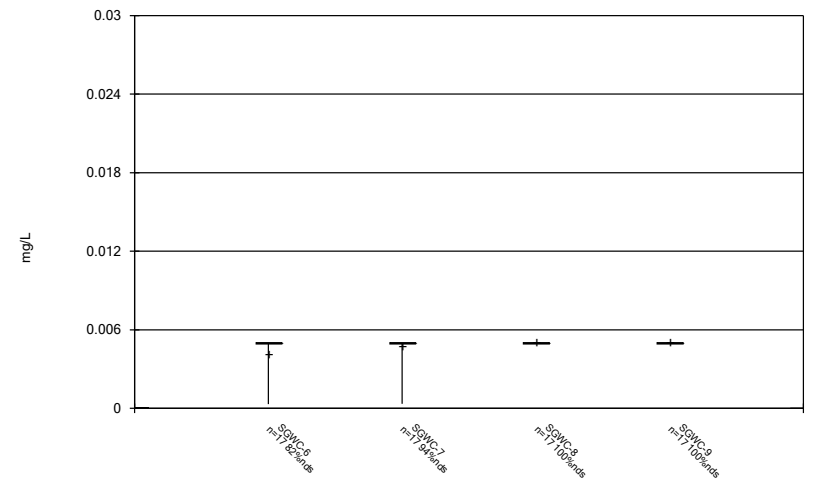
Constituent: Selenium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



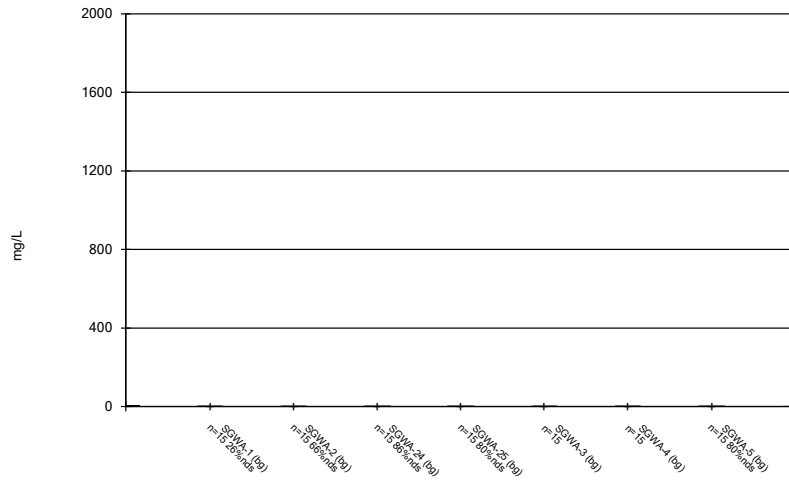
Constituent: Selenium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



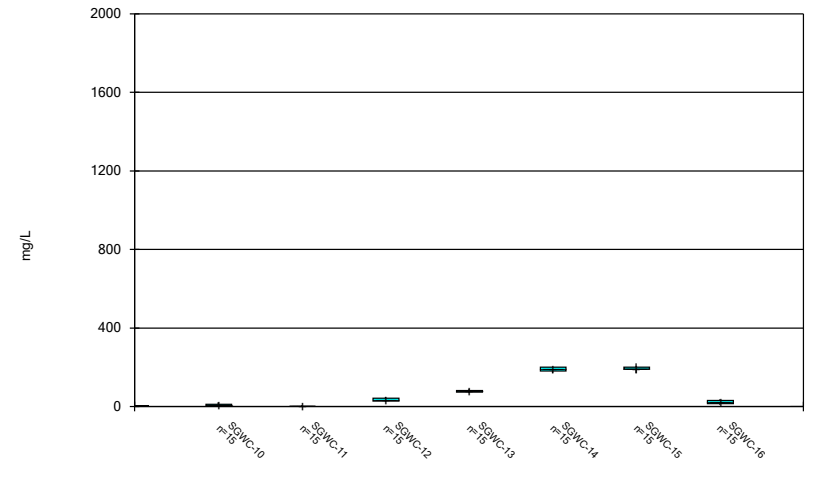
Constituent: Selenium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



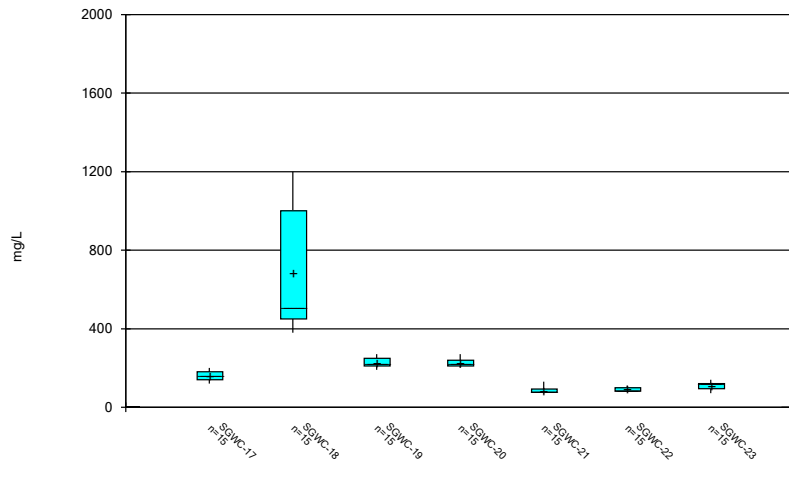
Constituent: Sulfate, total Analysis Run 1/6/2021 12:40 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



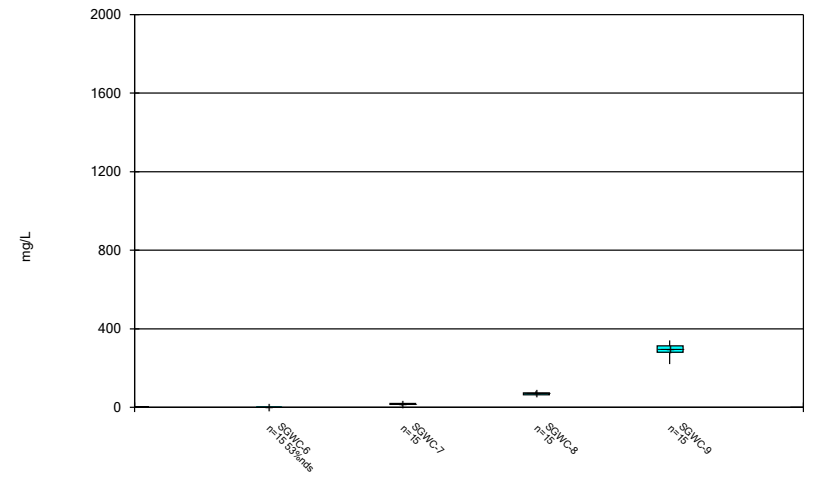
Constituent: Sulfate, total Analysis Run 1/6/2021 12:40 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



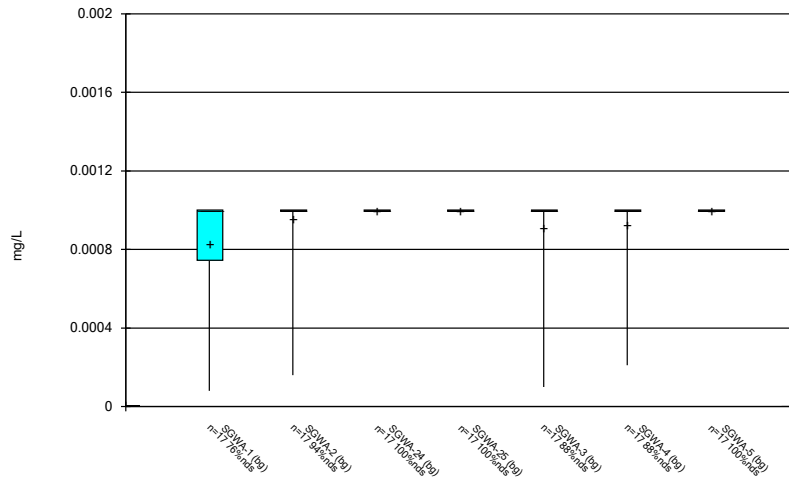
Constituent: Sulfate, total Analysis Run 1/6/2021 12:40 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



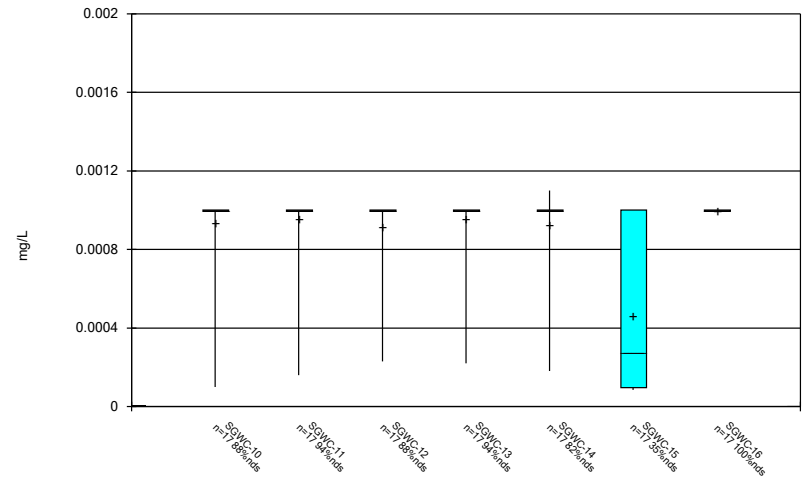
Constituent: Sulfate, total Analysis Run 1/6/2021 12:40 PM  
Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



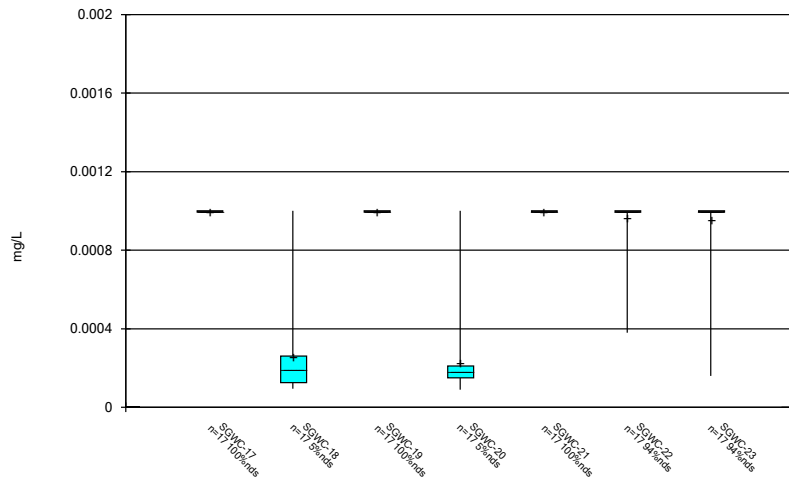
Constituent: Thallium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



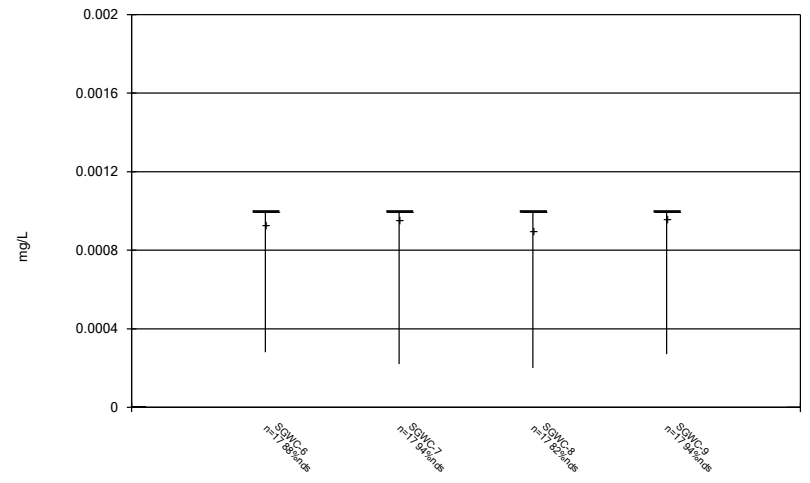
Constituent: Thallium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



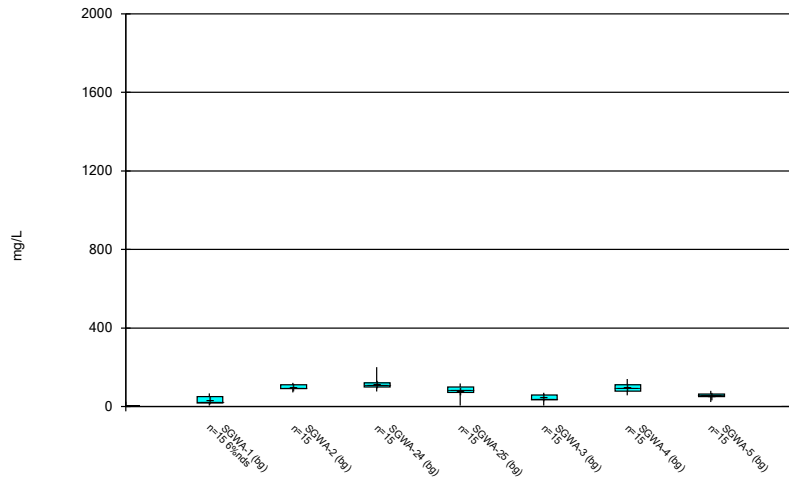
Constituent: Thallium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



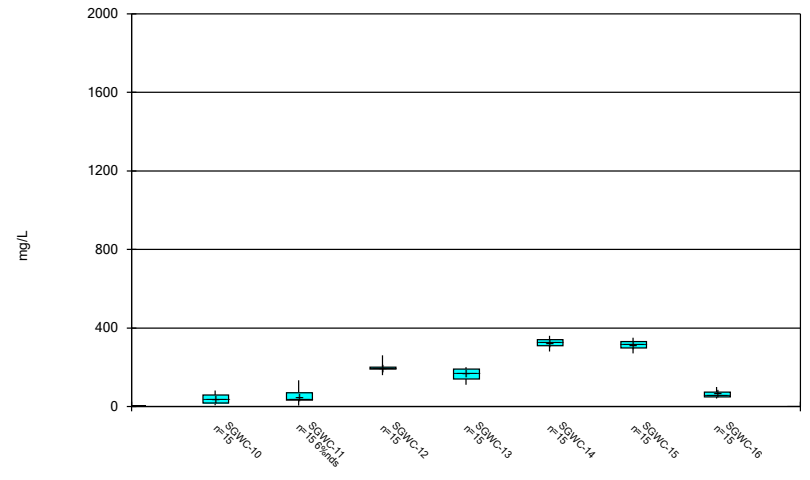
Constituent: Thallium Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



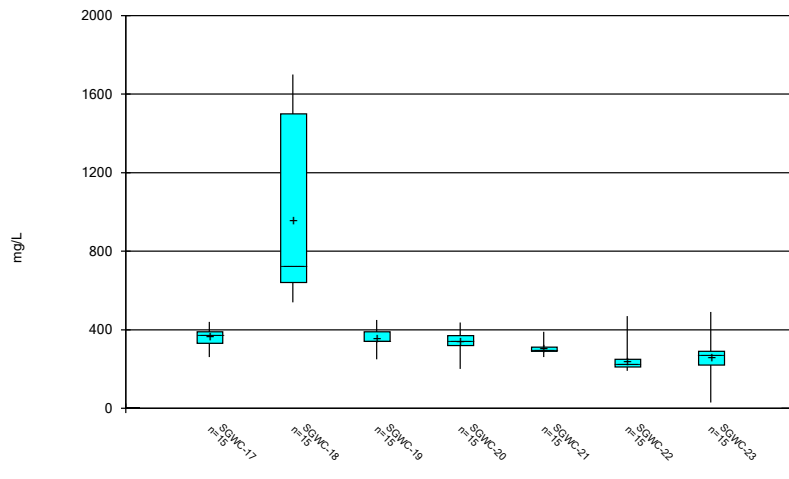
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



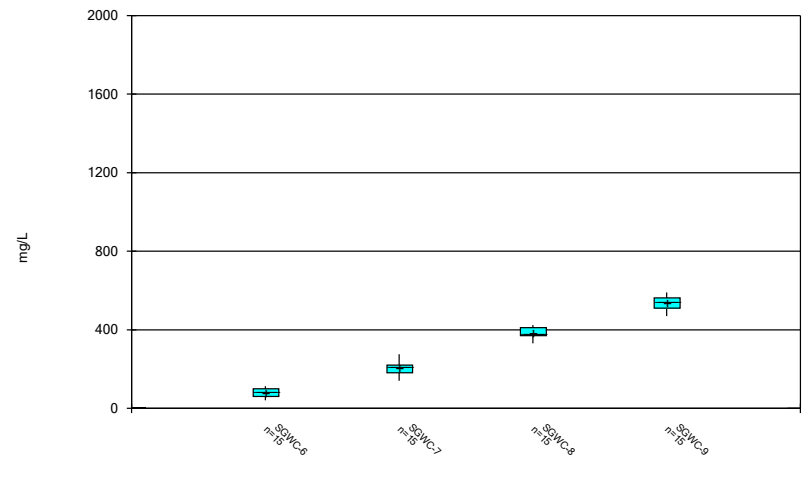
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/6/2021 12:40 PM  
 Plant Scherer Client: Southern Company Data: Scherer AP

FIGURE C.

# Outlier Summary

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:42 PM

	SGWC-20 Lithium (mg/L)	SGWC-7 Lithium (mg/L)
5/11/2016		<0.05 (O)
5/12/2016	<0.05 (O)	

FIGURE D.



# Appendix III - Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Date: Scherer AP Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-11	0.13	n/a	9/14/2020	0.43	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-13	0.13	n/a	9/14/2020	0.49	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-14	0.13	n/a	9/15/2020	1.5	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-15	0.13	n/a	9/15/2020	1.4	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-16	0.13	n/a	9/15/2020	0.57	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-17	0.13	n/a	9/15/2020	0.38	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-18	0.13	n/a	9/15/2020	6.2	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-19	0.13	n/a	9/15/2020	1.9	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-20	0.13	n/a	9/15/2020	1.8	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-21	0.13	n/a	9/15/2020	1.2	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-22	0.13	n/a	9/15/2020	0.5	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-23	0.13	n/a	9/15/2020	0.38	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-9	0.13	n/a	9/14/2020	1.7	Yes	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	SGWC-12	19	n/a	9/14/2020	22	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-14	19	n/a	9/15/2020	40	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-17	19	n/a	9/15/2020	54	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-18	19	n/a	9/15/2020	74	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-19	19	n/a	9/15/2020	47	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-21	19	n/a	9/15/2020	38	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-22	19	n/a	9/15/2020	28	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-23	19	n/a	9/15/2020	21	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-7	19	n/a	9/14/2020	20	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-8	19	n/a	9/14/2020	49	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-9	19	n/a	9/14/2020	45	Yes	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	SGWC-10	3	n/a	9/14/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3	n/a	9/14/2020	8.9	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3	n/a	9/14/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3	n/a	9/14/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3	n/a	9/15/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3	n/a	9/15/2020	8.6	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3	n/a	9/15/2020	8.4	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3	n/a	9/15/2020	7.7	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3	n/a	9/15/2020	12	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3	n/a	9/15/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-7	3	n/a	9/14/2020	5.8	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-8	3	n/a	9/14/2020	14	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-9	3	n/a	9/14/2020	19	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Fluoride, total (mg/L)	SGWC-15	0.108	n/a	9/15/2020	0.15	Yes	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-20	0.108	n/a	9/15/2020	0.15	Yes	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-7	0.108	n/a	9/14/2020	0.11	Yes	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-8	0.108	n/a	9/14/2020	0.29	Yes	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-15	6.87	5.09	9/15/2020	4.87	Yes	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-18	6.87	5.09	9/15/2020	4.94	Yes	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-20	6.87	5.09	9/15/2020	4.3	Yes	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-12	3.75	n/a	9/14/2020	41	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-13	3.75	n/a	9/14/2020	89	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-14	3.75	n/a	9/15/2020	180	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-15	3.75	n/a	9/15/2020	190	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-16	3.75	n/a	9/15/2020	36	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-17	3.75	n/a	9/15/2020	190	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-18	3.75	n/a	9/15/2020	860	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-19	3.75	n/a	9/15/2020	250	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2

# Appendix III - Interwell Prediction Limits - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate, total (mg/L)	SGWC-20	3.75	n/a	9/15/2020	200	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-21	3.75	n/a	9/15/2020	130	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-22	3.75	n/a	9/15/2020	110	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-23	3.75	n/a	9/15/2020	72	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-7	3.75	n/a	9/14/2020	17	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-8	3.75	n/a	9/14/2020	81	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-9	3.75	n/a	9/14/2020	220	Yes	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	9/15/2020	360	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	9/15/2020	340	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	9/15/2020	440	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	9/15/2020	1500	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	9/15/2020	450	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	9/15/2020	350	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	9/15/2020	390	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	9/15/2020	250	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	9/15/2020	210	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	9/14/2020	360	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	9/14/2020	470	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2

# Appendix III - Interwell Prediction Limits - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	SGWC-10	0.13	n/a	9/14/2020	0.082	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-11</b>	<b>0.13</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>0.43</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron, total (mg/L)	SGWC-12	0.13	n/a	9/14/2020	0.08ND	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-13</b>	<b>0.13</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>0.49</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-14</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.5</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-15</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.4</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-16</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.57</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-17</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.38</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-18</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>6.2</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-19</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.9</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-20</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.8</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-21</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>1.2</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-22</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.5</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>SGWC-23</b>	<b>0.13</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.38</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron, total (mg/L)	SGWC-6	0.13	n/a	9/14/2020	0.08ND	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-7	0.13	n/a	9/14/2020	0.08ND	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	SGWC-8	0.13	n/a	9/14/2020	0.1	No	105	n/a	n/a	94.29	n/a	n/a	0.0001768	NP Inter (NDs) 1 of 2
<b>Boron, total (mg/L)</b>	<b>SGWC-9</b>	<b>0.13</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>1.7</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>94.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (NDs) 1 of 2</b>
Calcium, total (mg/L)	SGWC-10	19	n/a	9/14/2020	0.75	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-11	19	n/a	9/14/2020	1.8	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-12</b>	<b>19</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>22</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-13	19	n/a	9/14/2020	19	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-14</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>40</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-15	19	n/a	9/15/2020	17	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	SGWC-16	19	n/a	9/15/2020	1.1	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-17</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>54</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-18</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>74</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-19</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>47</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-20	19	n/a	9/15/2020	14	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-21</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>38</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-22</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>28</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-23</b>	<b>19</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>21</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	SGWC-6	19	n/a	9/14/2020	10	No	105	n/a	n/a	0	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>SGWC-7</b>	<b>19</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>20</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-8</b>	<b>19</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>49</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>SGWC-9</b>	<b>19</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>45</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	SGWC-10	3	n/a	9/14/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-11	3	n/a	9/14/2020	8.9	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-12	3	n/a	9/14/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-13	3	n/a	9/14/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-14	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-15	3	n/a	9/15/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-16	3	n/a	9/15/2020	8.6	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-17	3	n/a	9/15/2020	8.4	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-18	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-19	3	n/a	9/15/2020	7.7	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-20	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-21	3	n/a	9/15/2020	12	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-22	3	n/a	9/15/2020	11	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-23	3	n/a	9/15/2020	10	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-6	3	n/a	9/14/2020	2.8	No	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-7	3	n/a	9/14/2020	5.8	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-8	3	n/a	9/14/2020	14	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Chloride, Total (mg/L)	SGWC-9	3	n/a	9/14/2020	19	Yes	105	1.361	0.1767	0	None	sqrt(x)	0.000418	Param Inter 1 of 2
Fluoride, total (mg/L)	SGWC-10	0.108	n/a	9/14/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-11	0.108	n/a	9/14/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2

# Appendix III - Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-12	0.108	n/a	9/14/2020	0.042J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-13	0.108	n/a	9/14/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-14	0.108	n/a	9/15/2020	0.04J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-15</b>	<b>0.108</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.15</b>	<b>Yes</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>	<b>68.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001235</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-16	0.108	n/a	9/15/2020	0.037J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-17	0.108	n/a	9/15/2020	0.052J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-18	0.108	n/a	9/15/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-19	0.108	n/a	9/15/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-20</b>	<b>0.108</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>0.15</b>	<b>Yes</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>	<b>68.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001235</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-21	0.108	n/a	9/15/2020	0.061J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-22	0.108	n/a	9/15/2020	0.1ND	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-23	0.108	n/a	9/15/2020	0.052J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	SGWC-6	0.108	n/a	9/14/2020	0.076J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
<b>Fluoride, total (mg/L)</b>	<b>SGWC-7</b>	<b>0.108</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>0.11</b>	<b>Yes</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>	<b>68.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001235</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride, total (mg/L)</b>	<b>SGWC-8</b>	<b>0.108</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>0.29</b>	<b>Yes</b>	<b>126</b>	<b>n/a</b>	<b>n/a</b>	<b>68.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001235</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride, total (mg/L)	SGWC-9	0.108	n/a	9/14/2020	0.037J	No	126	n/a	n/a	68.25	n/a	n/a	0.0001235	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-10	6.87	5.09	9/14/2020	5.51	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-11	6.87	5.09	9/14/2020	5.14	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-12	6.87	5.09	9/14/2020	6.11	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-13	6.87	5.09	9/14/2020	6	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-14	6.87	5.09	9/15/2020	6.01	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-15</b>	<b>6.87</b>	<b>5.09</b>	<b>9/15/2020</b>	<b>4.87</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002736</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-16	6.87	5.09	9/15/2020	5.56	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-17	6.87	5.09	9/15/2020	6.42	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-18</b>	<b>6.87</b>	<b>5.09</b>	<b>9/15/2020</b>	<b>4.94</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002736</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-19	6.87	5.09	9/15/2020	5.51	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
<b>pH (S.U.)</b>	<b>SGWC-20</b>	<b>6.87</b>	<b>5.09</b>	<b>9/15/2020</b>	<b>4.3</b>	<b>Yes</b>	<b>119</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0002736</b>	<b>NP Inter (normality) 1 of 2</b>
pH (S.U.)	SGWC-21	6.87	5.09	9/15/2020	6.1	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-22	6.87	5.09	9/15/2020	5.65	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-23	6.87	5.09	9/15/2020	5.89	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-6	6.87	5.09	9/14/2020	6.29	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-7	6.87	5.09	9/14/2020	6.31	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-8	6.87	5.09	9/14/2020	6.56	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
pH (S.U.)	SGWC-9	6.87	5.09	9/14/2020	6.33	No	119	n/a	n/a	0	n/a	n/a	0.0002736	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-10	3.75	n/a	9/14/2020	2.2	No	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	SGWC-11	3.75	n/a	9/14/2020	0.59J	No	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Sulfate, total (mg/L)</b>	<b>SGWC-12</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>41</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-13</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>89</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-14</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>180</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-15</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>190</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-16</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>36</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-17</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>190</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-18</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>860</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-19</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>250</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-20</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>200</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-21</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>130</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-22</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>110</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-23</b>	<b>3.75</b>	<b>n/a</b>	<b>9/15/2020</b>	<b>72</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate, total (mg/L)	SGWC-6	3.75	n/a	9/14/2020	0.46J	No	105	n/a	n/a	48.57	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
<b>Sulfate, total (mg/L)</b>	<b>SGWC-7</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>17</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-8</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>81</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-9</b>	<b>3.75</b>	<b>n/a</b>	<b>9/14/2020</b>	<b>220</b>	<b>Yes</b>	<b>105</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001768</b>	<b>NP Inter (normality) 1 of 2</b>
Total Dissolved Solids [TDS] (mg/L)	SGWC-10	200	n/a	9/14/2020	45	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-11	200	n/a	9/14/2020	39	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-12	200	n/a	9/14/2020	190	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-13	200	n/a	9/14/2020	190	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2

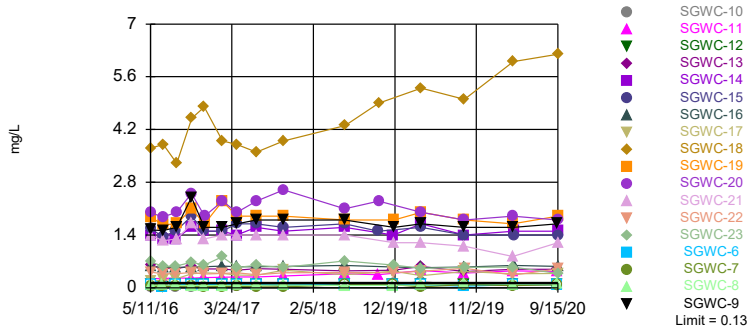
# Appendix III - Interwell Prediction Limits - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	200	n/a	9/15/2020	360	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	200	n/a	9/15/2020	340	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-16	200	n/a	9/15/2020	90	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	200	n/a	9/15/2020	440	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	200	n/a	9/15/2020	1500	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	200	n/a	9/15/2020	450	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	200	n/a	9/15/2020	350	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	200	n/a	9/15/2020	390	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	200	n/a	9/15/2020	250	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	200	n/a	9/15/2020	210	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-6	200	n/a	9/14/2020	99	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-7	200	n/a	9/14/2020	200	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	200	n/a	9/14/2020	360	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	200	n/a	9/14/2020	470	Yes	105	n/a	n/a	0.9524	n/a	n/a	0.0001768	NP Inter (normality) 1 of 2

Exceeds Limit: SGWC-11, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21...

Prediction Limit  
Interwell Non-parametric

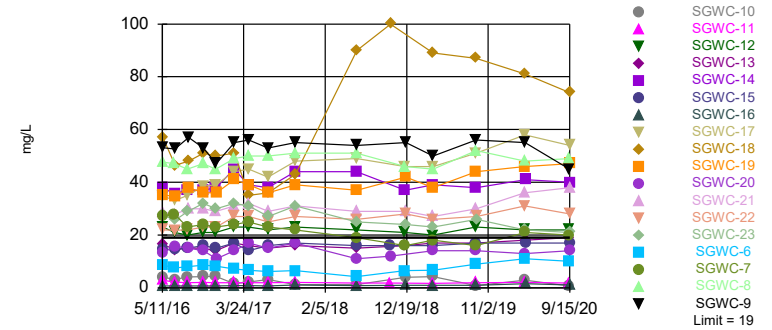


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 105 background values. 94.29% NDs. Annual per-constituent alpha = 0.006344. Individual comparison alpha = 0.0001768 (1 of 2). Comparing 18 points to limit.

Constituent: Boron, total Analysis Run 12/9/2020 3:43 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Exceeds Limit: SGWC-12, SGWC-14, SGWC-17, SGWC-18, SGWC-19, SGWC-21, SGWC-22, SGWC-23, SGWC-7, SGWC-8...

Prediction Limit  
Interwell Non-parametric

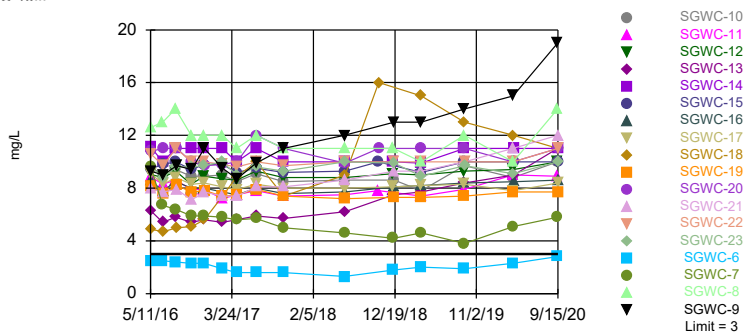


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. Annual per-constituent alpha = 0.006344. Individual comparison alpha = 0.0001768 (1 of 2). Comparing 18 points to limit.

Constituent: Calcium, total Analysis Run 12/9/2020 3:43 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Exceeds Limit: SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19...

Prediction Limit  
Interwell Parametric

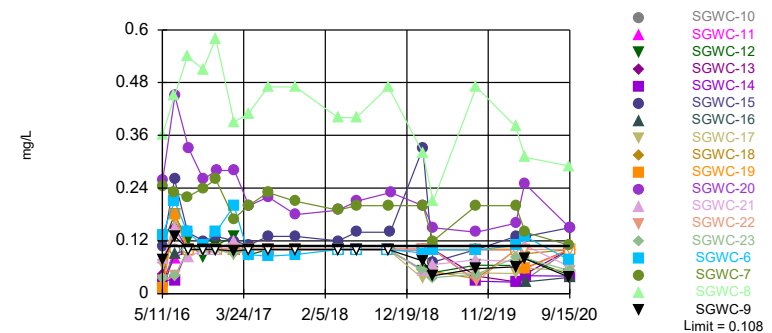


Background Data Summary (based on square root transformation): Mean=1.361, Std. Dev.=0.1767, n=105. Normality test: Chi Squared @alpha = 0.01, calculated = 6.333, critical = 14.07. Kappa = 2.101 (c=7, w=18, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000418. Comparing 18 points to limit.

Constituent: Chloride, Total Analysis Run 12/9/2020 3:43 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Exceeds Limit: SGWC-15, SGWC-20, SGWC-7, SGWC-8

Prediction Limit  
Interwell Non-parametric

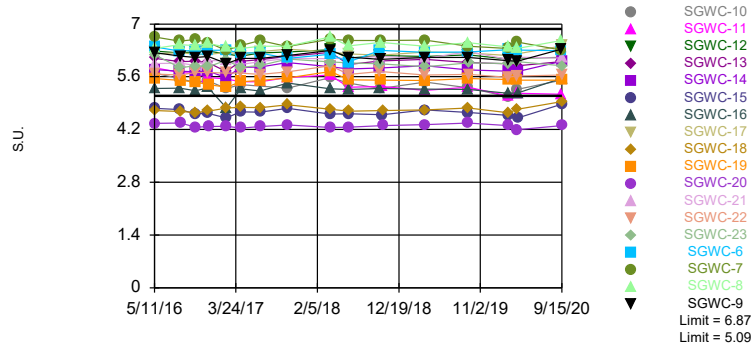


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 126 background values. 68.25% NDs. Annual per-constituent alpha = 0.004436. Individual comparison alpha = 0.0001235 (1 of 2). Comparing 18 points to limit.

Constituent: Fluoride, total Analysis Run 12/9/2020 3:43 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Exceeds Limits: SGWC-15, SGWC-18, SGWC-20

### Prediction Limit Interwell Non-parametric



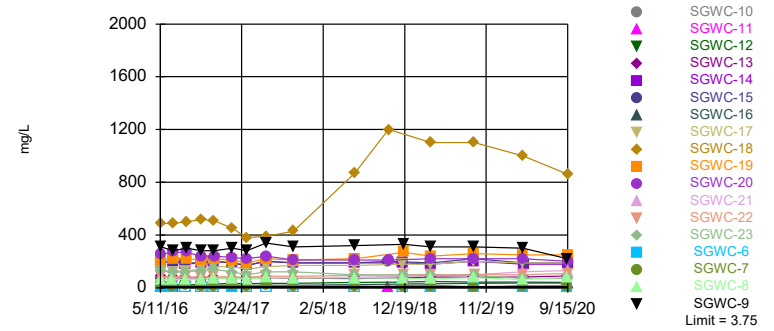
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 119 background values. Annual per-constituent alpha = 0.009828. Individual comparison alpha = 0.0002736 (1 of 2). Comparing 18 points to limit.

Constituent: pH Analysis Run 12/9/2020 3:43 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21...

### Prediction Limit Interwell Non-parametric



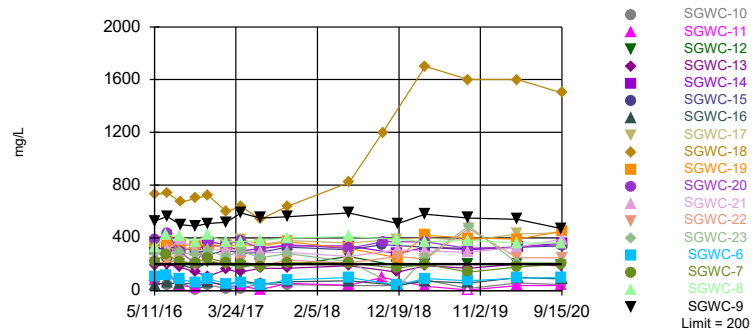
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 48.57% NDs. Annual per-constituent alpha = 0.006344. Individual comparison alpha = 0.0001768 (1 of 2). Comparing 18 points to limit.

Constituent: Sulfate, total Analysis Run 12/9/2020 3:43 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-14, SGWC-15, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23, SGWC-8...

### Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 0.9524% NDs. Annual per-constituent alpha = 0.006344. Individual comparison alpha = 0.0001768 (1 of 2). Comparing 18 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:44 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-3 (bg)	SGWA-24 (bg)	SGWA-5 (bg)	SGWC-11	SGWC-12	SGWC-9
5/10/2016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08			
5/11/2016							0.242	<0.08	1.54
5/12/2016									
5/13/2016									
6/23/2016	<0.08		<0.08		<0.08	<0.08			
6/24/2016				0.0109 (J)					
6/27/2016		0.0052 (J)							
6/28/2016							0.245	0.0054 (J)	
6/29/2016									1.52
6/30/2016									
8/16/2016	<0.08		<0.08	<0.08	<0.08	<0.08			
8/17/2016		<0.08					0.26		
8/18/2016								<0.08	
8/19/2016									
8/22/2016									1.6
10/13/2016	<0.08				<0.08				
10/14/2016		<0.08	<0.08	<0.08		<0.08			
10/17/2016							0.25	<0.08	
10/18/2016									2.4
10/19/2016									
12/5/2016					<0.08				
12/6/2016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.27	<0.08	
12/7/2016									1.6
12/8/2016									
2/14/2017	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08			
2/15/2017							0.28	<0.08	
2/16/2017									1.6
4/10/2017					<0.08				
4/11/2017	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08			
4/12/2017							0.29	<0.08	
4/13/2017									1.7
6/26/2017	<0.08		<0.08	<0.08	<0.08	<0.08			
6/27/2017		<0.08					0.29	<0.08	1.8
6/28/2017									
10/10/2017	<0.08		<0.08		<0.08				
10/11/2017		<0.08		<0.08		<0.08	0.31	<0.08	
10/12/2017									1.8
6/5/2018	<0.08	<0.08	<0.08		<0.08	<0.08			
6/6/2018				<0.08			0.37	<0.08	1.8
6/7/2018									
6/8/2018									
10/16/2018							0.35 (D)		
10/18/2018									
12/13/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08			
12/14/2018								<0.08	
12/17/2018									1.6
3/28/2019		<0.08		<0.08		<0.08			
3/29/2019	<0.08		<0.08		<0.08				
4/1/2019							0.46	<0.08	1.7
4/2/2019									
9/12/2019						<0.08			
9/13/2019					<0.08				







# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWA-4 (bg)	SGWC-10	SGWC-8	SGWC-7	SGWC-13	SGWC-20	SGWC-17	SGWC-21
9/16/2019	0.04 (J)	<0.08							
9/17/2019			0.077	0.11	<0.08	0.43	1.8	0.43	1.1
9/18/2019									
3/17/2020									
3/18/2020		<0.08							
3/23/2020							1.9		0.83
3/24/2020								0.37	
3/25/2020	<0.08		0.12	0.089					
3/26/2020					0.055 (J)				
3/27/2020						0.49			
9/14/2020	<0.08	<0.08	0.082	0.1	<0.08	0.49			
9/15/2020							1.8	0.38	1.2

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	0.691	1.38	0.411	0.562	1.57		
5/13/2016						1.87	3.71
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		1.29		0.546	1.36		
6/29/2016	0.557		0.373 (J)			1.67	
6/30/2016							3.8
8/16/2016							
8/17/2016							
8/18/2016		1.3		0.54	1.5		
8/19/2016	0.58		0.37				
8/22/2016						1.7	3.3
10/13/2016							
10/14/2016							
10/17/2016		1.6					
10/18/2016	0.68		0.41	0.55	1.9	2.1	
10/19/2016							4.5
12/5/2016							
12/6/2016							
12/7/2016	0.6	1.5	0.36	0.56	1.5		4.8
12/8/2016						1.7	
2/14/2017							
2/15/2017	0.82	1.5			1.5		
2/16/2017			0.38 (J)	0.58		2.3	3.9
4/10/2017							
4/11/2017							
4/12/2017		1.4			1.7		
4/13/2017	0.54		0.4	0.56		1.9	3.8
6/26/2017							
6/27/2017		1.6		0.56	1.7		
6/28/2017	0.59		0.35			1.9	3.6
10/10/2017							
10/11/2017		1.5					
10/12/2017	0.54		0.4	0.57	1.6	1.9	3.9
6/5/2018							
6/6/2018							
6/7/2018	0.71	1.6	0.41	0.59	1.7		
6/8/2018						1.8	4.3
10/16/2018					1.5 (D)		
10/18/2018							4.9 (D)
12/13/2018							
12/14/2018		1.4					
12/17/2018	0.6		0.4	0.55		1.8	
3/28/2019							
3/29/2019							
4/1/2019		1.7			1.6		
4/2/2019	0.52		0.44	0.53		2	5.3
9/12/2019							
9/13/2019							

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
9/16/2019							
9/17/2019		1.4		0.55	1.4	1.8	5
9/18/2019	0.54		0.52				
3/17/2020							
3/18/2020							
3/23/2020						1.7	
3/24/2020	0.55		0.34				
3/25/2020							
3/26/2020							6
3/27/2020		1.5		0.59	1.4		
9/14/2020							
9/15/2020	0.38	1.5	0.5	0.57	1.4	1.9	6.2

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-3 (bg)	SGWA-24 (bg)	SGWA-5 (bg)	SGWC-11	SGWC-12	SGWC-9
5/10/2016	3	11.4	10.1	6.22	12.3	2.64			
5/11/2016							2.91	23.1	53.1
5/12/2016									
5/13/2016									
6/23/2016	2.42		8.45		11.3	1.65			
6/24/2016				5.55					
6/27/2016		9.16							
6/28/2016							2.19	21	
6/29/2016									52.6
6/30/2016									
8/16/2016	2.1		9.4	5	11	1.3			
8/17/2016		9.6					1.9		
8/18/2016								20	
8/19/2016									
8/22/2016									57
10/13/2016	2.7				12				
10/14/2016		11	10	5.4		1.4			
10/17/2016							2	21	
10/18/2016									53
10/19/2016									
12/5/2016					12				
12/6/2016	2.1	11	10	4.8		1.4	1.9	21	
12/7/2016									47
12/8/2016									
2/14/2017	1.8	12	11	4.6	13	1.4			
2/15/2017							1.9	23	
2/16/2017									55
4/10/2017					12				
4/11/2017	1.8	11	10	5		1.4			
4/12/2017							1.9	23	
4/13/2017									56
6/26/2017	1.7 (D)		10 (D)	4.9 (D)	13 (D)	1.5 (D)			
6/27/2017		9.5 (D)					1.9 (D)	22 (D)	53 (D)
6/28/2017									
10/10/2017	2.3		11		14				
10/11/2017		11		5.5		1.6	2	23	
10/12/2017									55
6/5/2018	2.6	9.7	11		13	1.5			
6/6/2018				4.1			1.8	22	54
6/7/2018									
6/8/2018									
10/16/2018							1.8 (D)		
10/18/2018									
12/13/2018	1.7	9.4	10	4.3	12	1.4			
12/14/2018								21	
12/17/2018									55
3/28/2019		8.7		4.8		1.4			
3/29/2019	2		11		12				
4/1/2019							1.7	20	50
4/2/2019									
9/12/2019						1.6			
9/13/2019					14				







# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWA-4 (bg)	SGWC-10	SGWC-8	SGWC-7	SGWC-13	SGWC-20	SGWC-17	SGWC-21
9/16/2019	8.9	18							
9/17/2019			0.79	52	16	17	14	51	30
9/18/2019									
3/17/2020									
3/18/2020		18							
3/23/2020							13		36
3/24/2020								58	
3/25/2020	11		2.9	48					
3/26/2020					21				
3/27/2020						18			
9/14/2020	10	17	0.75	49	20	19			
9/15/2020							14	54	38

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	27.6	37.7	21.9	0.75	14.5		
5/13/2016						35.3	56.9
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		35.8		0.768	14.7		
6/29/2016	25.6		21.8			34.6	
6/30/2016							46.4
8/16/2016							
8/17/2016							
8/18/2016		37		0.7	15		
8/19/2016	29		22				
8/22/2016						38	48
10/13/2016							
10/14/2016							
10/17/2016		37					
10/18/2016	32		23	0.75	16	36	
10/19/2016							51
12/5/2016							
12/6/2016							
12/7/2016	30	38	23	0.73	15		50
12/8/2016						36	
2/14/2017							
2/15/2017	32	45			17		
2/16/2017			27	0.81		41	51
4/10/2017							
4/11/2017							
4/12/2017		39			14		
4/13/2017	31		27	0.88		39	35
6/26/2017							
6/27/2017		38 (D)		0.76 (D)	16 (D)		
6/28/2017	27 (D)		25 (D)			36 (D)	36 (D)
10/10/2017							
10/11/2017		44					
10/12/2017	31		27	1.1	17	39	43
6/5/2018							
6/6/2018							
6/7/2018	25	44	26	0.84	16		
6/8/2018						37	90
10/16/2018					16 (D)		
10/18/2018							100 (D)
12/13/2018							
12/14/2018		37					
12/17/2018	24		28	0.94		42	
3/28/2019							
3/29/2019							
4/1/2019		39			16		
4/2/2019	23		26	0.92		38	89
9/12/2019							
9/13/2019							

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
9/16/2019							
9/17/2019		38		1	17	44	87
9/18/2019	26		27				
3/17/2020							
3/18/2020							
3/23/2020						46	
3/24/2020	22		31				
3/25/2020							
3/26/2020							81
3/27/2020		41		1.5	17		
9/14/2020							
9/15/2020	21	40	28	1.1	17	47	74

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-3 (bg)	SGWA-24 (bg)	SGWA-5 (bg)	SGWC-11	SGWC-12	SGWC-9
5/10/2016	1.9	2.77	1.51	3.45	1.94	1.98			
5/11/2016							8.87	9.04	9.29
5/12/2016									
5/13/2016									
6/23/2016	2.2		1.8		2.2	2.1			
6/24/2016				3.5					
6/27/2016		2.9							
6/28/2016							8.3	8.8	
6/29/2016									9
6/30/2016									
8/16/2016	2.1		1.5	3.4	2	1.8			
8/17/2016		2.4					8.6		
8/18/2016								9.3	
8/19/2016									
8/22/2016									9.7
10/13/2016	2				1.9				
10/14/2016		2.1	1.4	3.1		1.8			
10/17/2016							7.9	8.3	
10/18/2016									9.4
10/19/2016									
12/5/2016					1.9				
12/6/2016	2.2	1.7	1.5	3		1.8	7.9	8.9	
12/7/2016									11
12/8/2016									
2/14/2017	2	1.5	1.5	2.4	1.9	1.8			
2/15/2017							7.2	8.7	
2/16/2017									9.5
4/10/2017					1.8				
4/11/2017	1.8	1.7	1.3	2.5		1.7			
4/12/2017							7.5	8.6	
4/13/2017									8.7
6/26/2017	1.9		1.4	2.6	1.9	1.7			
6/27/2017		2.2					7.8	9.3	9.9
6/28/2017									
10/10/2017	1.8		1.3		1.8				
10/11/2017		1.7		2.4		1.6	7.4	8.8	
10/12/2017									11
6/5/2018	1.7	2	1.3		1.9	1.6			
6/6/2018				2			7.5	8.8	12
6/7/2018									
6/8/2018									
10/16/2018							7.8 (D)		
10/18/2018									
12/13/2018	1.7	1.9	1.3	2	2	1.7			
12/14/2018								9.1	
12/17/2018									13
3/28/2019		2.2		2		1.7			
3/29/2019	1.5		1.2		1.8				
4/1/2019							7.4	9	13
4/2/2019									
9/12/2019						1.5			
9/13/2019					1.7				





# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWA-4 (bg)	SGWC-10	SGWC-8	SGWC-7	SGWC-13	SGWC-20	SGWC-17	SGWC-21
9/16/2019	1.9	1.2							
9/17/2019			9.7	12	3.8	8.4	11	8.3	10
9/18/2019									
3/17/2020									
3/18/2020		1.5							
3/23/2020							10		11
3/24/2020								7.8	
3/25/2020	2.3		8.8	10					
3/26/2020					5.1				
3/27/2020						9			
9/14/2020	2.8	1.5	10	14	5.8	11			
9/15/2020							11	8.4	12

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	9.63	11.1	10.6	8.56	9.47		
5/13/2016						8.16	4.87
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		10		7.8	9.8		
6/29/2016	8.8		9.7			7.6	
6/30/2016							4.7
8/16/2016							
8/17/2016							
8/18/2016		11		8.5	10		
8/19/2016	9.6		11				
8/22/2016						8.2	5
10/13/2016							
10/14/2016							
10/17/2016		11					
10/18/2016	9.6		10	8	9.4	7.7	
10/19/2016							5.1
12/5/2016							
12/6/2016							
12/7/2016	9.7	11	10	8	9.8		5.6
12/8/2016						7.8	
2/14/2017							
2/15/2017	10	11			9.8		
2/16/2017			9.8	7.7		7.4	7.4
4/10/2017							
4/11/2017							
4/12/2017		10			9.2		
4/13/2017	9		9.6	7.5		7.5	8.9
6/26/2017							
6/27/2017		11		8	9.5		
6/28/2017	9.6		10			7.9	10
10/10/2017							
10/11/2017		10					
10/12/2017	9.3		9.7	7.6	9.2	7.4	7.4
6/5/2018							
6/6/2018							
6/7/2018	10	10	10	7.7	9.3		
6/8/2018						7.2	9
10/16/2018					10 (D)		
10/18/2018							16 (D)
12/13/2018							
12/14/2018		10					
12/17/2018	9.9		10	8.1		7.3	
3/28/2019							
3/29/2019							
4/1/2019		9.9			9.2		
4/2/2019	8.9		10	8.2		7.3	15
9/12/2019							
9/13/2019							



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
9/16/2019							
9/17/2019		11		8.4	10	7.4	13
9/18/2019	9.7		10				
3/17/2020							
3/18/2020							
3/23/2020						7.7	
3/24/2020	9.1		10				
3/25/2020							
3/26/2020							12
3/27/2020		11		8.5	10		
9/14/2020							
9/15/2020	10	11	11	8.6	10	7.7	11

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-5 (bg)	SGWA-25 (bg)	SGWA-3 (bg)	SGWA-2 (bg)	SGWA-24 (bg)	SGWA-4 (bg)	SGWC-9	SGWC-12
5/10/2016	<0.1	0.0188 (J)	0.041 (J)	0.0192 (J)	0.0537 (J)	0.0648 (J)			
5/11/2016							0.108 (J)	0.076 (J)	0.11 (J)
5/12/2016									
5/13/2016									
6/23/2016	<0.1	<0.1			0.03 (J)	0.05 (J)			
6/24/2016				0.02 (J)			0.08 (J)		
6/27/2016			0.03 (J)						
6/28/2016									0.18 (J)
6/29/2016								0.13 (J)	
6/30/2016									
8/16/2016	<0.1	<0.1		<0.1	<0.1	<0.1			
8/17/2016			<0.1				<0.1		
8/18/2016									0.12 (J)
8/19/2016									
8/22/2016								<0.1	
10/13/2016	<0.1						<0.1		
10/14/2016		<0.1	<0.1	<0.1	<0.1				
10/17/2016							<0.1		0.082 (J)
10/18/2016								<0.1	
10/19/2016									
12/5/2016						<0.1			
12/6/2016	<0.1	<0.1	<0.1	<0.1	<0.1		0.091 (J)		0.11 (J)
12/7/2016								<0.1	
12/8/2016									
2/14/2017	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1 (J)		
2/15/2017									0.13 (J)
2/16/2017								0.097 (J)	
4/10/2017						<0.1			
4/11/2017	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1		
4/12/2017									0.088 (J)
4/13/2017								<0.1	
6/26/2017	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1		
6/27/2017			<0.1					<0.1	0.1 (J)
6/28/2017									
10/10/2017	<0.1				<0.1	<0.1			
10/11/2017		<0.1	<0.1	<0.1			<0.1		<0.1
10/12/2017								<0.1	
3/26/2018	<0.1			<0.1	<0.1	<0.1			
3/27/2018		<0.1	<0.1				<0.1		<0.1
3/28/2018								<0.1	
6/5/2018	<0.1	<0.1	<0.1		<0.1	<0.1			
6/6/2018				<0.1			<0.1	<0.1	<0.1
6/7/2018									
6/8/2018									
10/5/2018	<0.1			<0.1	<0.1	<0.1			
10/8/2018		<0.1	<0.1				<0.1		<0.1
10/9/2018								<0.1	
10/16/2018									
10/18/2018									
2/18/2019	<0.1				0.05 (J)		0.066 (J)		
2/19/2019		<0.1	0.044 (J)	<0.1		0.06 (J)			
2/20/2019								0.074 (J)	0.052 (J)



# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-8	SGWC-11	SGWC-7	SGWC-10	SGWC-6	SGWC-21	SGWC-14	SGWC-17	SGWC-23
5/10/2016									
5/11/2016	0.362	0.033 (J)	0.245 (J)	0.019 (J)	0.133 (J)				
5/12/2016						0.079 (J)	0.031 (J)	0.066 (J)	0.0341 (J)
5/13/2016									
6/23/2016									
6/24/2016									
6/27/2016	0.45		0.23 (J)		0.21 (J)				
6/28/2016		0.08 (J)		<0.1			0.03 (J)		
6/29/2016						0.15 (J)		0.17 (J)	0.04 (J)
6/30/2016									
8/16/2016									
8/17/2016	0.54	<0.1	0.22	<0.1	0.14 (J)				
8/18/2016							<0.1	<0.1	
8/19/2016									<0.1
8/22/2016						0.083 (J)			
10/13/2016									
10/14/2016									
10/17/2016	0.51	<0.1		<0.1	0.11 (J)		<0.1		
10/18/2016			0.24			<0.1			<0.1
10/19/2016								<0.1 (D)	
12/5/2016									
12/6/2016	0.58	<0.1	0.26	<0.1	0.14 (J)				
12/7/2016						<0.1	<0.1	<0.1	<0.1
12/8/2016									
2/14/2017	0.39		0.17 (J)		0.2				
2/15/2017		<0.1		<0.1			<0.1	0.089 (J)	0.092 (J)
2/16/2017						0.12 (J)			
4/10/2017									
4/11/2017									
4/12/2017	0.41	<0.1	0.2	<0.1	0.089 (J)		<0.1		
4/13/2017						<0.1		<0.1	<0.1
6/26/2017									
6/27/2017	0.47	<0.1	0.23	<0.1	0.085 (J)		<0.1	<0.1	
6/28/2017						0.1 (J)			<0.1
10/10/2017									
10/11/2017		<0.1	0.21		0.089 (J)		<0.1		
10/12/2017	0.47			<0.1		<0.1		<0.1	<0.1
3/26/2018									
3/27/2018	0.4	<0.1	0.19 (J)	<0.1	<0.1		<0.1	<0.1	<0.1
3/28/2018						<0.1			
6/5/2018									
6/6/2018	0.4	<0.1	0.2	<0.1	<0.1				
6/7/2018						<0.1	<0.1	<0.1	<0.1
6/8/2018									
10/5/2018									
10/8/2018					<0.1	<0.1	<0.1	<0.1	<0.1
10/9/2018	0.47		0.2	<0.1					
10/16/2018		<0.1 (D)							
10/18/2018									
2/18/2019									
2/19/2019									0.055 (J)
2/20/2019	0.32	<0.1	0.2	<0.1	0.092 (J)	0.051 (J)	<0.1	0.034 (J)	

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-8	SGWC-11	SGWC-7	SGWC-10	SGWC-6	SGWC-21	SGWC-14	SGWC-17	SGWC-23
3/28/2019									
3/29/2019									
4/1/2019	0.21	<0.1	0.12 (J)	<0.1			<0.1		
4/2/2019					0.1 (J)	0.066 (J)		0.045 (J)	0.036 (J)
9/12/2019									
9/13/2019									
9/16/2019		<0.1			0.099 (J)				
9/17/2019	0.47		0.2	<0.1		0.077 (J)	0.028 (J)	0.047 (J)	
9/18/2019									0.044 (J)
2/13/2020									
2/17/2020									
2/18/2020	0.38	<0.1	0.2		0.11	0.073 (J)			0.082 (J)
2/19/2020				<0.1			0.026 (J)	0.046 (J)	
2/20/2020									
3/17/2020									
3/18/2020									
3/23/2020						0.11			
3/24/2020								0.058 (J)	0.081 (J)
3/25/2020	0.31	0.058 (J)		0.031 (J)	0.13				
3/26/2020			0.14						
3/27/2020							0.041 (J)		
9/14/2020	0.29	<0.1	0.11	<0.1	0.076 (J)				
9/15/2020						0.061 (J)	0.04 (J)	0.052 (J)	0.052 (J)

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-15	SGWC-20	SGWC-22	SGWC-13	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	0.011 (J)	0.1071 (J)	0.259 (J)	0.029 (J)	0.042 (J)		
5/13/2016						0.0126 (J)	0.0343 (J)
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016	0.09 (J)	0.26 (J)			0.15 (J)		
6/29/2016			0.45	0.04 (J)		0.18 (J)	
6/30/2016							0.18 (J)
8/16/2016							
8/17/2016							
8/18/2016	<0.1	0.14 (J)			<0.1		
8/19/2016				<0.1			
8/22/2016			0.33			<0.1	<0.1
10/13/2016							
10/14/2016							
10/17/2016					<0.1		
10/18/2016	<0.1	0.12 (J)	0.26	<0.1		<0.1	
10/19/2016							<0.1
12/5/2016							
12/6/2016					<0.1		
12/7/2016	<0.1	0.13 (J)		<0.1			<0.1
12/8/2016			0.28			<0.1	
2/14/2017							
2/15/2017		0.12 (J)			<0.1		
2/16/2017	<0.1		0.28	0.1 (J)		<0.1	<0.1
4/10/2017							
4/11/2017							
4/12/2017		0.11 (J)			<0.1		
4/13/2017	<0.1		0.2	<0.1		<0.1	<0.1
6/26/2017							
6/27/2017	<0.1	0.13 (J)			<0.1		
6/28/2017			0.22	<0.1		<0.1	<0.1
10/10/2017							
10/11/2017					<0.1		
10/12/2017	<0.1	0.13 (J)	0.18 (J)	<0.1		<0.1	<0.1
3/26/2018							
3/27/2018	<0.1	0.12 (J)			<0.1		
3/28/2018			0.19 (J)	<0.1		<0.1	<0.1
6/5/2018							
6/6/2018							
6/7/2018	<0.1	0.14 (J)	0.21	<0.1	<0.1		
6/8/2018						<0.1	<0.1
10/5/2018							
10/8/2018	<0.1			<0.1	<0.1		
10/9/2018						<0.1	
10/16/2018		0.14 (JD)					
10/18/2018			0.23 (D)				<0.1 (D)
2/18/2019							
2/19/2019				<0.1			
2/20/2019	<0.1	0.33	0.2		<0.1	<0.1	<0.1

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-16	SGWC-15	SGWC-20	SGWC-22	SGWC-13	SGWC-19	SGWC-18
3/28/2019							
3/29/2019							
4/1/2019		0.072 (J)			<0.1		
4/2/2019	<0.1		0.15 (J)	<0.1		<0.1	0.05 (J)
9/12/2019							
9/13/2019							
9/16/2019							
9/17/2019	<0.1	0.1	0.14		0.04 (J)	<0.1	0.034 (J)
9/18/2019				0.028 (J)			
2/13/2020							
2/17/2020							
2/18/2020			0.16	<0.1			
2/19/2020	<0.1	0.13			0.027 (J)	<0.1	
2/20/2020							<0.1
3/17/2020							
3/18/2020							
3/23/2020			0.25			0.057 (J)	
3/24/2020				<0.1			
3/25/2020							
3/26/2020							0.091 (J)
3/27/2020	0.027 (J)	0.13			0.045 (J)		
9/14/2020					<0.1		
9/15/2020	0.037 (J)	0.15	0.15	<0.1		<0.1	<0.1









# Prediction Limit

Constituent: pH (S.U.) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWC-7	SGWC-8	SGWC-10	SGWC-9	SGWC-21	SGWC-20	SGWC-23	SGWC-14
2/13/2020									
2/17/2020									
2/18/2020	6.32	6.35	6.39			6.06	4.3	5.95	
2/19/2020				5.07	6.03				5.75
2/20/2020									
3/17/2020									
3/18/2020									
3/23/2020						6.12	4.19		
3/24/2020								6	
3/25/2020	6.31		6.35	5.26	6.01				
3/26/2020		6.52							
3/27/2020									5.74
5/19/2020									
9/14/2020	6.29	6.31	6.56	5.51	6.33				
9/15/2020						6.1	4.3	5.89	6.01

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 12/9/2020 3:45 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-16	SGWC-15	SGWC-13	SGWC-22	SGWC-18	SGWC-19
5/10/2016							
5/11/2016							
5/12/2016	6.21	5.29	4.76	6.09	5.675 (D)		
5/13/2016						4.7	5.55
8/16/2016							
8/17/2016							
8/18/2016	6.24	5.3	4.73	6			
8/19/2016					5.65		
8/22/2016						4.68	5.5
10/13/2016							
10/14/2016							
10/17/2016				6.01			
10/18/2016		5.23	4.62		5.71		5.46
10/19/2016	6.2					4.65	
12/5/2016							
12/6/2016				5.98			
12/7/2016	6.19	5.31	4.63		5.71	4.69	
12/8/2016							5.39
2/14/2017							
2/15/2017	6.25		4.51	5.74			
2/16/2017		4.77			5.7	4.77	5.32
4/10/2017							
4/11/2017							
4/12/2017			4.67	6.01			
4/13/2017	6.21	5.28			5.7	4.79	5.47
6/26/2017							
6/27/2017	6.27	5.22 (D)	4.66	6.05			
6/28/2017					5.66	4.78	5.5
10/10/2017							
10/11/2017				6.14			
10/12/2017	6.33	5.43	4.76		5.73	4.86	5.57
3/26/2018							
3/27/2018	6.26	5.28	4.61	6.25			
3/28/2018					5.89	4.74	5.74
6/5/2018							
6/6/2018							
6/7/2018	6.21	5.26	4.62	5.93	5.66		
6/8/2018						4.69	5.52
10/5/2018							
10/8/2018	6.17	5.29		6.02	5.74		
10/9/2018							5.51
10/16/2018			4.59				
10/18/2018						4.7	
3/28/2019							
3/29/2019							
4/1/2019			4.72	6.06			
4/2/2019	6.26	5.27			5.65	4.72	5.5
9/12/2019							
9/13/2019							
9/16/2019							
9/17/2019	6.23	5.26	4.65	5.98		4.77	5.55
9/18/2019					5.66		

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-17	SGWC-16	SGWC-15	SGWC-13	SGWC-22	SGWC-18	SGWC-19
2/13/2020							
2/17/2020							
2/18/2020					5.59		
2/19/2020	6.16	5.16	4.58	5.94			5.53
2/20/2020						4.64	
3/17/2020							
3/18/2020							
3/23/2020							5.51
3/24/2020	6.21				5.62		
3/25/2020							
3/26/2020						4.74	
3/27/2020		5.17	4.51	5.89			
5/19/2020							
9/14/2020				6			
9/15/2020	6.42	5.56	4.87		5.65	4.94	5.51

# Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III

Plant Scherer Client: Southern Company Data: Scherer AP

	SGWA-1 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-3 (bg)	SGWA-24 (bg)	SGWA-5 (bg)	SGWC-11	SGWC-12	SGWC-9
5/10/2016	0.6766 (J)	0.686 (J)	0.4053 (J)	2.82	<1	0.4716 (J)			
5/11/2016							6.31	30.1	313
5/12/2016									
5/13/2016									
6/23/2016	0.94 (J)		0.55 (J)		0.3 (J)	0.46 (J)			
6/24/2016				2.3					
6/27/2016		0.61 (J)							
6/28/2016							3.7	25	
6/29/2016									280
6/30/2016									
8/16/2016	1.2		<1	1.5	<1	<1			
8/17/2016		<1					2.4		
8/18/2016								24	
8/19/2016									
8/22/2016									300
10/13/2016	2.9				<1				
10/14/2016		<1	<1	1.2		<1			
10/17/2016							2.1	23	
10/18/2016									280
10/19/2016									
12/5/2016					<1				
12/6/2016	3.2	<1	<1	1.3		<1	1.9	28	
12/7/2016									280
12/8/2016									
2/14/2017	0.76 (J)	<1	<1	1.9	<1	<1			
2/15/2017							1.2	33	
2/16/2017									300
4/10/2017					<1				
4/11/2017	<1	<1	<1	1.3		<1			
4/12/2017							1	30	
4/13/2017									280
6/26/2017	0.74 (J)		<1	1.5	<1	<1			
6/27/2017		<1					1.2	33	340
6/28/2017									
10/10/2017	0.76 (J)		<1		<1				
10/11/2017		<1		0.98 (J)		<1	0.82 (J)	33	
10/12/2017									310
6/5/2018	<1	<1	<1		<1	<1			
6/6/2018				1.8			0.89 (J)	41	320
6/7/2018									
6/8/2018									
10/16/2018							1.3		
10/18/2018									
12/13/2018	<1	<1	<1	1.4	<1	<1			
12/14/2018								43	
12/17/2018									330
3/28/2019		<1		1.9		<1			
3/29/2019	<1		0.65 (J)		<1				
4/1/2019							0.81 (J)	48	310
4/2/2019									
9/12/2019						<1			
9/13/2019					<1				







# Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWA-4 (bg)	SGWC-10	SGWC-8	SGWC-7	SGWC-13	SGWC-20	SGWC-17	SGWC-21
9/16/2019	0.53 (J)	1.1							
9/17/2019			2.3	77	8.7	79	220	200	99
9/18/2019									
3/17/2020									
3/18/2020		1.3							
3/23/2020							220		120
3/24/2020								190	
3/25/2020	0.58 (J)		14	62					
3/26/2020					15				
3/27/2020						81			
9/14/2020	0.46 (J)	0.96 (J)	2.2	81	17	89			
9/15/2020							200	190	130

# Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	131	194	85.3	9.9	194		
5/13/2016						212	484
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		200		11	200		
6/29/2016	120		84			220	
6/30/2016							490
8/16/2016							
8/17/2016							
8/18/2016		180		14	190		
8/19/2016	120		81				
8/22/2016						220	500
10/13/2016							
10/14/2016							
10/17/2016		190					
10/18/2016	130		83	15	190	210	
10/19/2016							520
12/5/2016							
12/6/2016							
12/7/2016	140	200	85	17	200		510
12/8/2016						220	
2/14/2017							
2/15/2017	120	190			190		
2/16/2017			83	17		210	450
4/10/2017							
4/11/2017							
4/12/2017		170			170		
4/13/2017	100		79	15		190	380
6/26/2017							
6/27/2017		200		19	200		
6/28/2017	120		90			220	390
10/10/2017							
10/11/2017		190					
10/12/2017	120		87	20	190	210	430
6/5/2018							
6/6/2018							
6/7/2018	100	190	94	25	190		
6/8/2018						220	870
10/16/2018					200		
10/18/2018							1200
12/13/2018							
12/14/2018		190					
12/17/2018	96		99	28		270	
3/28/2019							
3/29/2019							
4/1/2019		180			190		
4/2/2019	95		100	31		240	1100
9/12/2019							
9/13/2019							

# Prediction Limit

Constituent: Sulfate, total (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
9/16/2019							
9/17/2019		200		33	220	260	1100
9/18/2019	95		100				
3/17/2020							
3/18/2020							
3/23/2020						250	
3/24/2020	71		100				
3/25/2020							
3/26/2020							1000
3/27/2020		180		35	190		
9/14/2020							
9/15/2020	72	180	110	36	190	250	860

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L)    Analysis Run 12/9/2020 3:45 PM    View: Appendix III

Plant Scherer    Client: Southern Company    Data: Scherer AP

	SGWA-1 (bg)	SGWA-25 (bg)	SGWA-2 (bg)	SGWA-3 (bg)	SGWA-24 (bg)	SGWA-5 (bg)	SGWC-11	SGWC-12	SGWC-9
5/10/2016	44	100	96	59	110	64			
5/11/2016							80	195	527
5/12/2016									
5/13/2016									
6/23/2016	38		91		118	58			
6/24/2016				39					
6/27/2016		117							
6/28/2016							134	200	
6/29/2016									562
6/30/2016									
8/16/2016	22		100	38	110	52			
8/17/2016		86					42		
8/18/2016								200	
8/19/2016									
8/22/2016									500
10/13/2016	66				120				
10/14/2016		80	100	34		58			
10/17/2016							24	160	
10/18/2016									490
10/19/2016									
12/5/2016					110				
12/6/2016	54	110	110	70		72	70	220	
12/7/2016									510
12/8/2016									
2/14/2017	18	98	76	32	86	52			
2/15/2017							34	200	
2/16/2017									520
4/10/2017					120				
4/11/2017	50	110	120	64		78			
4/12/2017							36	180	
4/13/2017									590
6/26/2017	60		110	64	130	80			
6/27/2017		18					8	200	550
6/28/2017									
10/10/2017	36		100		110				
10/11/2017		94		42		64	56	190	
10/12/2017									560
6/5/2018	8	80	74		76	50			
6/6/2018				46			40	260	590
6/7/2018									
6/8/2018									
10/16/2018							100 (D)		
10/18/2018									
12/13/2018	16	4 (J)	110	4 (J)	100	58			
12/14/2018								190	
12/17/2018									510
3/28/2019		79		43		58			
3/29/2019	<10		72		110				
4/1/2019							33	200	580
4/2/2019									
9/12/2019						22			
9/13/2019					200				





# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-6	SGWA-4 (bg)	SGWC-10	SGWC-8	SGWC-7	SGWC-13	SGWC-20	SGWC-17	SGWC-21
9/16/2019	76	57							
9/17/2019			17	380	140	170	320	380	290
9/18/2019									
3/17/2020									
3/18/2020		140							
3/23/2020							330		330
3/24/2020								430	
3/25/2020	94		59	360					
3/26/2020					180				
3/27/2020						200			
9/14/2020	99	110	45	360	200	190			
9/15/2020							350	440	390

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
 Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
5/10/2016							
5/11/2016							
5/12/2016	288	309	212	46	298		
5/13/2016						366	728
6/23/2016							
6/24/2016							
6/27/2016							
6/28/2016		333		60	337		
6/29/2016	272		214			370	
6/30/2016							742
8/16/2016							
8/17/2016							
8/18/2016		320		48	310		
8/19/2016	290		230				
8/22/2016						350	670
10/13/2016							
10/14/2016							
10/17/2016		320					
10/18/2016	270		190	60	320	340	
10/19/2016							700
12/5/2016							
12/6/2016							
12/7/2016	300	340	230	64	270		720
12/8/2016						350	
2/14/2017							
2/15/2017	260	340			310		
2/16/2017			200	40		340	600
4/10/2017							
4/11/2017							
4/12/2017		300			280		
4/13/2017	300		220	76		350	640
6/26/2017							
6/27/2017		320		50	290		
6/28/2017	250		190			340	540
10/10/2017							
10/11/2017		340					
10/12/2017	280		230	68	330	370	640
6/5/2018							
6/6/2018							
6/7/2018	220	340	210	74	310		
6/8/2018						320	820
10/16/2018					350 (D)		
10/18/2018							1200 (D)
12/13/2018							
12/14/2018		280					
12/17/2018	30		260	42		250	
3/28/2019							
3/29/2019							
4/1/2019		330			330		
4/2/2019	250		240	73		420	1700
9/12/2019							
9/13/2019							



# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 12/9/2020 3:45 PM View: Appendix III  
Plant Scherer Client: Southern Company Data: Scherer AP

	SGWC-23	SGWC-14	SGWC-22	SGWC-16	SGWC-15	SGWC-19	SGWC-18
9/16/2019							
9/17/2019		310		59	320	400	1600
9/18/2019	490		470				
3/17/2020							
3/18/2020							
3/23/2020						390	
3/24/2020	210		250				
3/25/2020							
3/26/2020							1600
3/27/2020		330		99	330		
9/14/2020							
9/15/2020	210	360	250	90	340	450	1500

FIGURE E.

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	SGWC-11	0.04725	92	53	Yes	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-18	0.5506	67	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-1 (bg)	-0.1981	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-4 (bg)	0.9029	56	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-17	5.008	88	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-19	2.58	68	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-22	1.614	72	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-7	-2.447	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-3 (bg)	-0.3625	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-13	0.9311	69	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-18	2.168	76	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-21	0.8644	71	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-7	-0.7725	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-9	1.573	81	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-20	-0.03552	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-7	-0.01865	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-25 (bg)	-0.03068	-65	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-4 (bg)	-0.2298	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-12	5.748	70	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-16	6.106	99	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-17	16.67	88	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-20	-12.65	-66	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-21	7.065	65	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-22	5.799	69	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-23	-12.92	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	28.14	80	53	Yes	15	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 12/9/2020, 3:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	SGWA-1 (bg)	0	10	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-2 (bg)	0	10	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-24 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-25 (bg)	0	12	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-3 (bg)	0	3	53	No	15	86.67	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-4 (bg)	0	12	53	No	15	93.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWA-5 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>SGWC-11</b>	<b>0.04725</b>	<b>92</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	SGWC-13	-0.01742	-51	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-14	0.03244	29	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-15	-0.02771	-18	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-16	0.003216	21	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-17	0.03283	39	53	No	15	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>SGWC-18</b>	<b>0.5506</b>	<b>67</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	SGWC-19	0	5	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-20	-0.02485	-13	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-21	-0.05585	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-22	0.01973	23	53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-23	-0.03484	-39	-53	No	15	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	SGWC-9	0	20	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWA-1 (bg)</b>	<b>-0.1981</b>	<b>-56</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWA-2 (bg)	0.3919	52	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-24 (bg)	0.5098	50	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-25 (bg)	-0.4761	-46	-53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWA-3 (bg)	-0.07652	-11	-53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWA-4 (bg)</b>	<b>0.9029</b>	<b>56</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWA-5 (bg)	0	18	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-12	0	2	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-14	0.6828	37	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-17</b>	<b>5.008</b>	<b>88</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-18	8.732	28	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-19</b>	<b>2.58</b>	<b>68</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-21	0.7816	31	53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-22</b>	<b>1.614</b>	<b>72</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-23	-1.864	-51	-53	No	15	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>SGWC-7</b>	<b>-2.447</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	SGWC-8	0.8221	28	53	No	15	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	SGWC-9	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-1 (bg)	-0.08508	-35	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-2 (bg)	-0.06262	-38	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-24 (bg)	0	-11	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-25 (bg)	0	-3	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWA-3 (bg)</b>	<b>-0.3625</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWA-4 (bg)	-0.04953	-27	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWA-5 (bg)	-0.05356	-37	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-10	-0.1478	-17	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-11	-0.05076	-9	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-12	0.1717	41	53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-13</b>	<b>0.9311</b>	<b>69</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-14	0	-19	-53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-15	0	13	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-16	0.1214	22	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-17	-0.09805	-32	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-18</b>	<b>2.168</b>	<b>76</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-19	-0.1087	-34	-53	No	15	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 12/9/2020, 3:51 PM

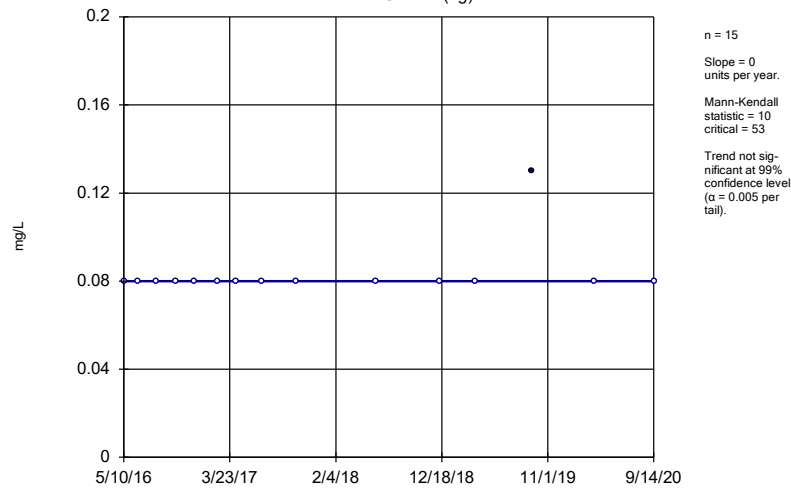
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	SGWC-20	0	13	53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-21</b>	<b>0.8644</b>	<b>71</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-22	0	9	53	No	15	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	SGWC-23	0.03427	14	53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-7</b>	<b>-0.7725</b>	<b>-72</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	SGWC-8	-0.6114	-43	-53	No	15	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>SGWC-9</b>	<b>1.573</b>	<b>81</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWA-1 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-2 (bg)	-0.0002426	-46	-68	No	18	55.56	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-24 (bg)	0	-42	-68	No	18	55.56	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-25 (bg)	0	-43	-68	No	18	55.56	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-3 (bg)	0	6	68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-4 (bg)	-0.004263	-54	-68	No	18	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWA-5 (bg)	0	3	68	No	18	88.89	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	SGWC-15	0	13	68	No	18	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>SGWC-20</b>	<b>-0.03552</b>	<b>-86</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>SGWC-7</b>	<b>-0.01865</b>	<b>-85</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	SGWC-8	-0.03824	-60	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-1 (bg)	-0.04682	-54	-63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-2 (bg)	0	2	63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-24 (bg)	0.009109	25	63	No	17	0	n/a	n/a	0.01	NP
<b>pH (S.U.)</b>	<b>SGWA-25 (bg)</b>	<b>-0.03068</b>	<b>-65</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (S.U.)	SGWA-3 (bg)	0.03166	41	63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-4 (bg)	-0.01103	-18	-63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWA-5 (bg)	0.03099	34	63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-15	-0.01549	-23	-58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-18	0.02034	24	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	SGWC-20	0	-2	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-1 (bg)	0	-3	-53	No	15	26.67	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-2 (bg)	0	6	53	No	15	66.67	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-24 (bg)	0	1	53	No	15	86.67	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-25 (bg)	0	12	53	No	15	80	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWA-3 (bg)	-0.1666	-34	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWA-4 (bg)</b>	<b>-0.2298</b>	<b>-59</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWA-5 (bg)	0	15	53	No	15	80	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-12</b>	<b>5.748</b>	<b>70</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-13	0.8314	12	53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-14	-1.931	-25	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-15	0	-5	-53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-16</b>	<b>6.106</b>	<b>99</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-17</b>	<b>16.67</b>	<b>88</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-18	125.9	36	53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-19	9.117	43	53	No	15	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>SGWC-20</b>	<b>-12.65</b>	<b>-66</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-21</b>	<b>7.065</b>	<b>65</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-22</b>	<b>5.799</b>	<b>69</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate, total (mg/L)</b>	<b>SGWC-23</b>	<b>-12.92</b>	<b>-75</b>	<b>-53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	SGWC-7	-1.544	-49	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-8	2.607	45	53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	SGWC-9	0	7	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-1 (bg)	-8.022	-39	-53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-2 (bg)	0	-9	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-24 (bg)	0	-11	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-25 (bg)	-8.983	-44	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-3 (bg)	-2.624	-6	-53	No	15	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 3

Plant Scherer Client: Southern Company Data: Scherer AP Printed 12/9/2020, 3:51 PM

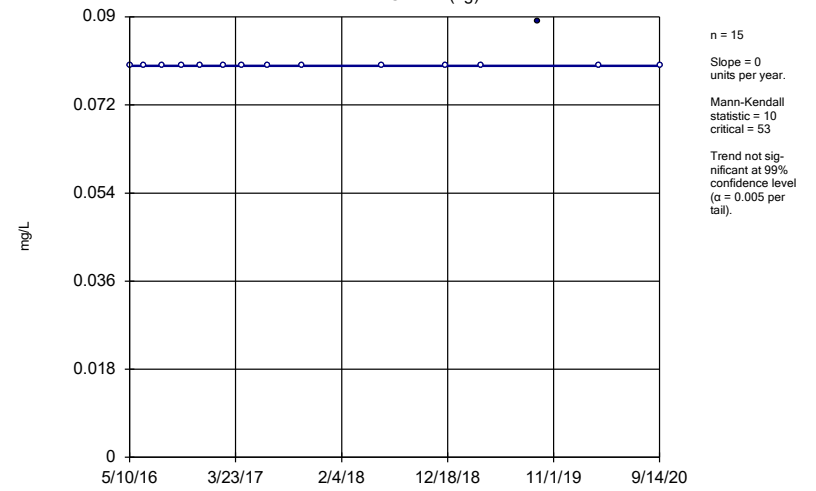
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids [TDS] (mg/L)	SGWA-4 (bg)	9.111	35	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWA-5 (bg)	-6.134	-35	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-14	2.904	15	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-15	7.636	36	53	No	15	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>SGWC-17</b>	<b>28.14</b>	<b>80</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	SGWC-18	204	37	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-19	10.16	18	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-20	-5.536	-14	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-21	0	2	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-22	10.18	48	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-23	-17.94	-40	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-8	-6.213	-24	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	SGWC-9	4.309	6	53	No	15	0	n/a	n/a	0.01	NP

Sen's Slope Estimator  
SGWA-1 (bg)



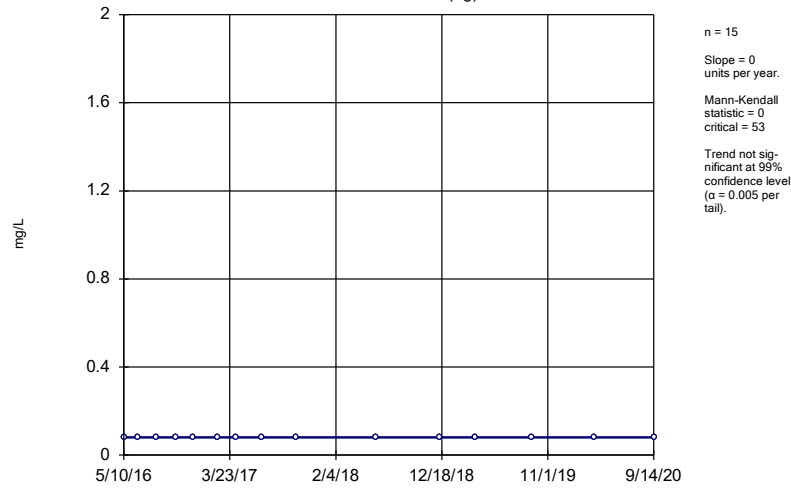
Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-2 (bg)



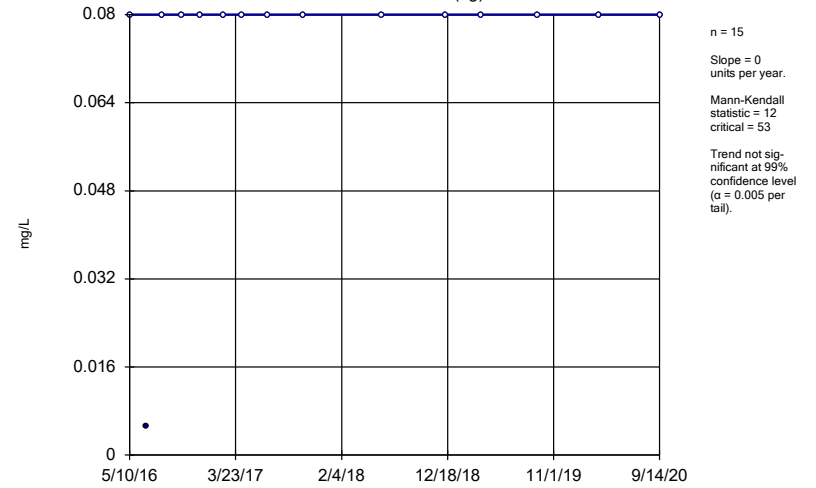
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-24 (bg)



Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

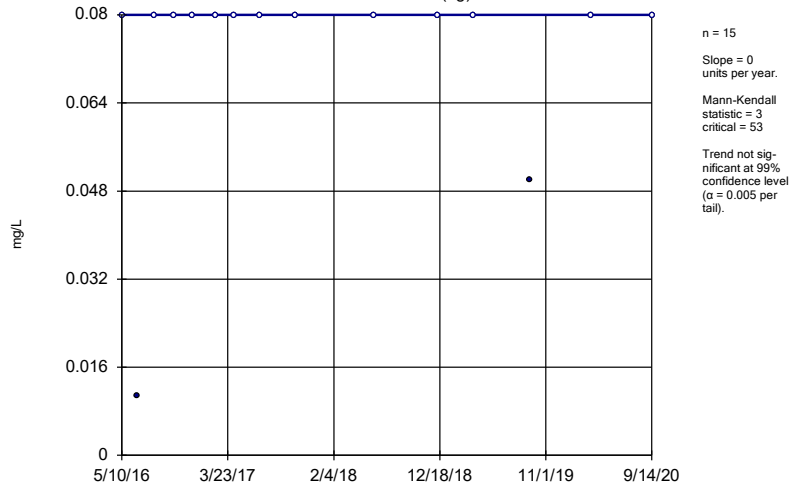
Sen's Slope Estimator  
SGWA-25 (bg)



Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

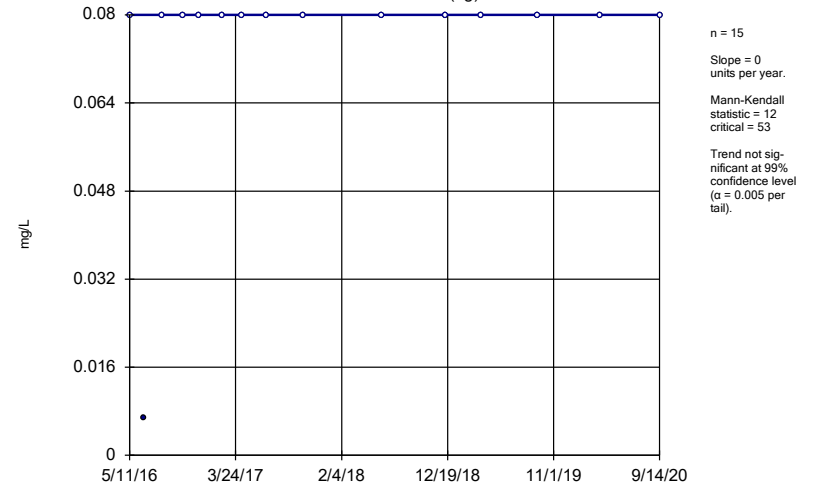
SGWA-3 (bg)



Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

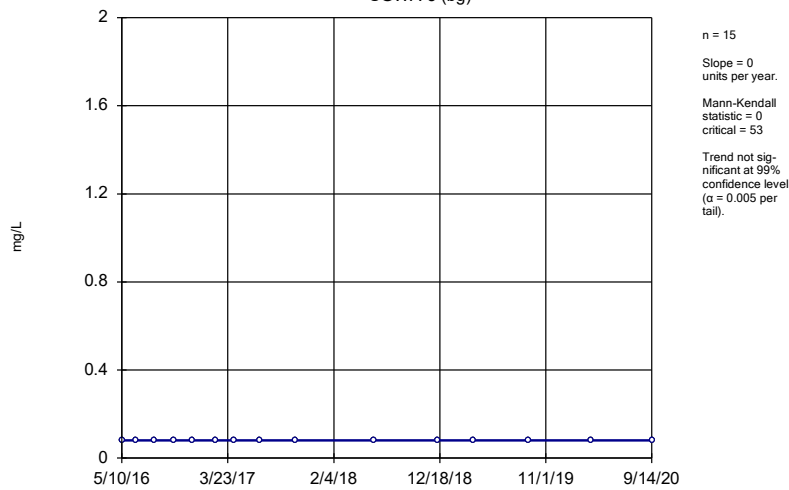
SGWA-4 (bg)



Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

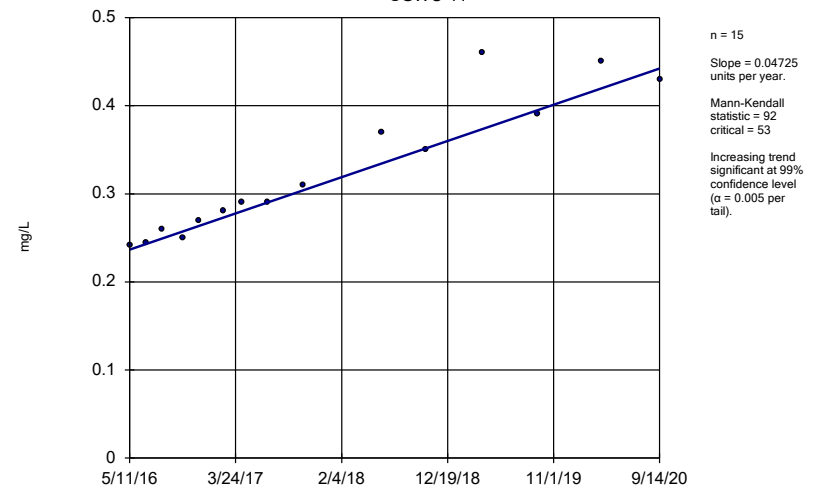
SGWA-5 (bg)



Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

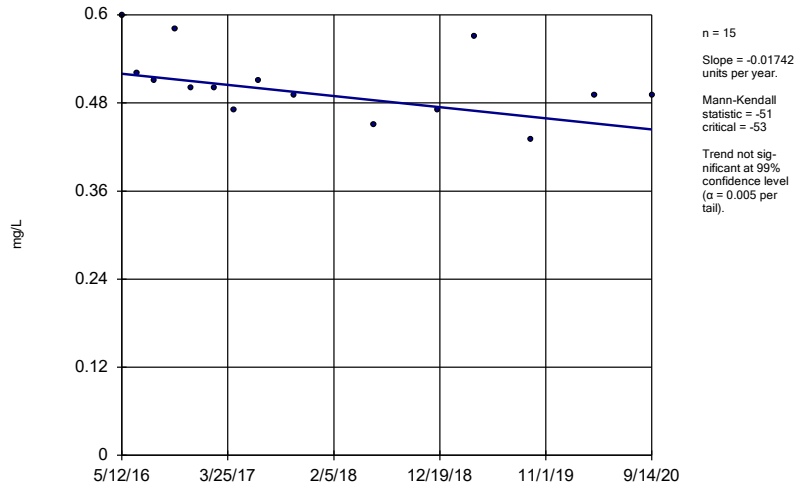
SGWC-11



Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

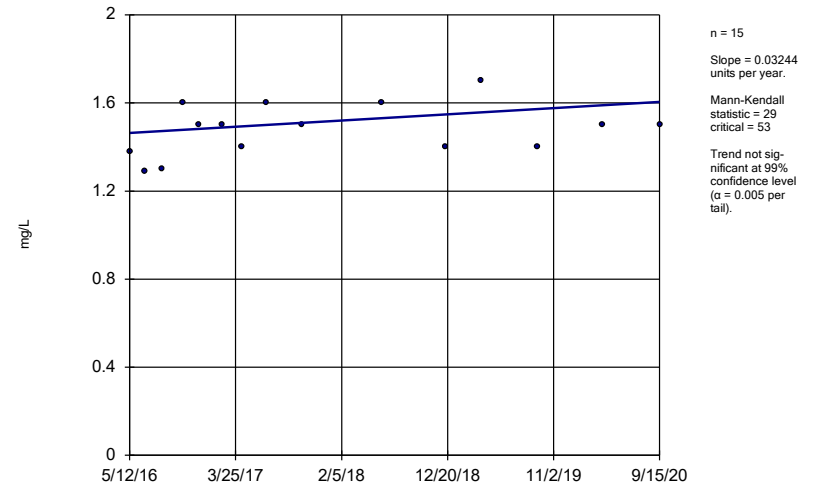


### Sen's Slope Estimator SGWC-13



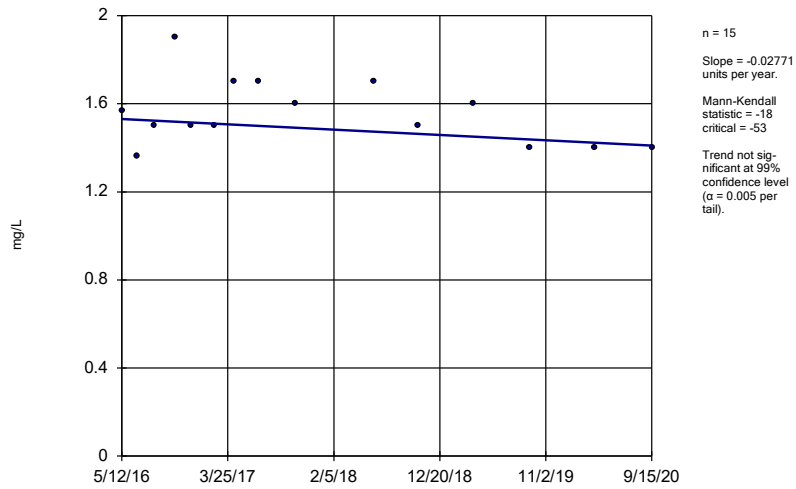
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Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-14



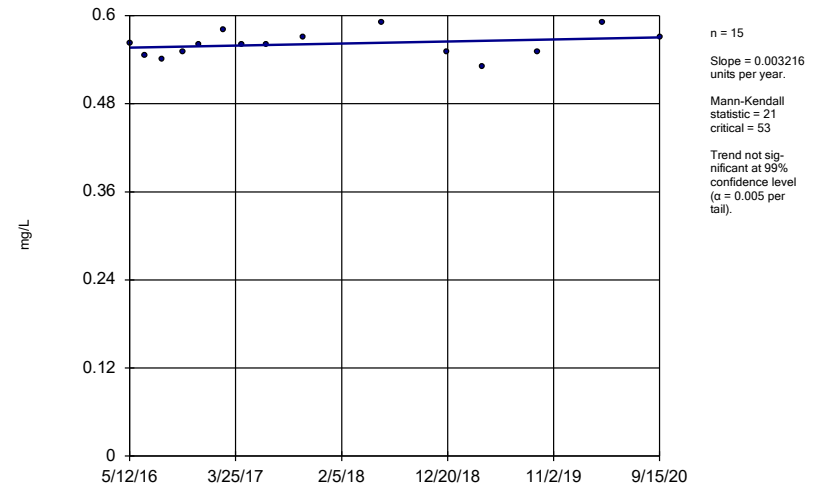
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Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-15



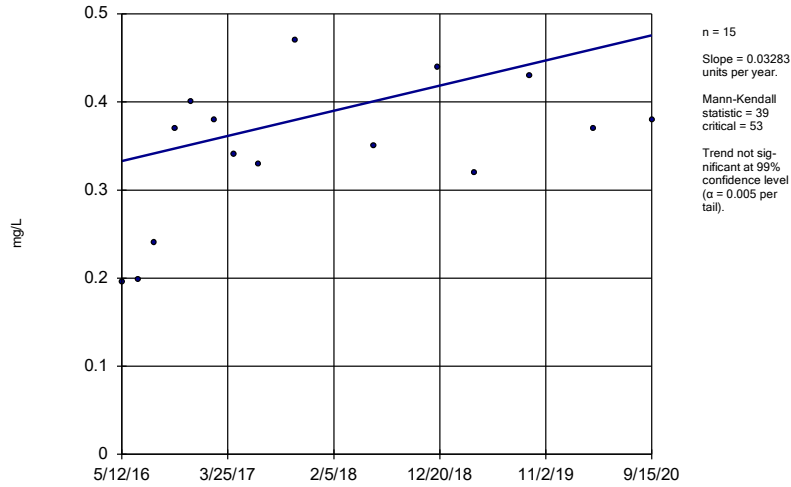
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Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-16



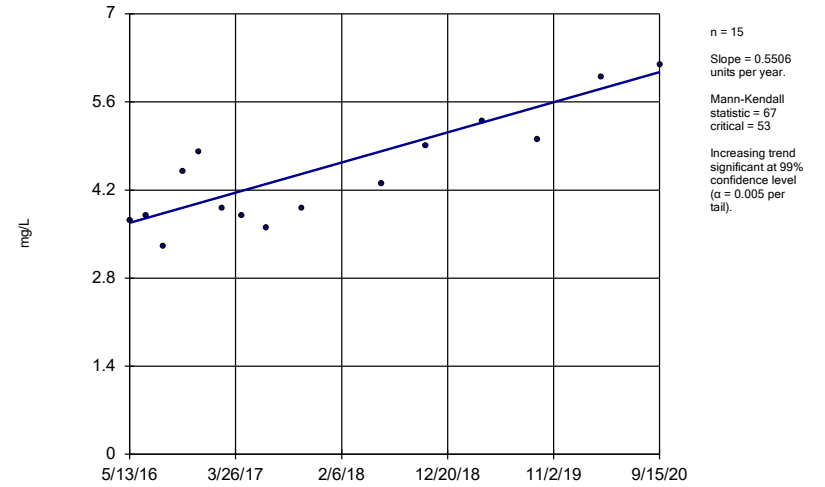
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-17



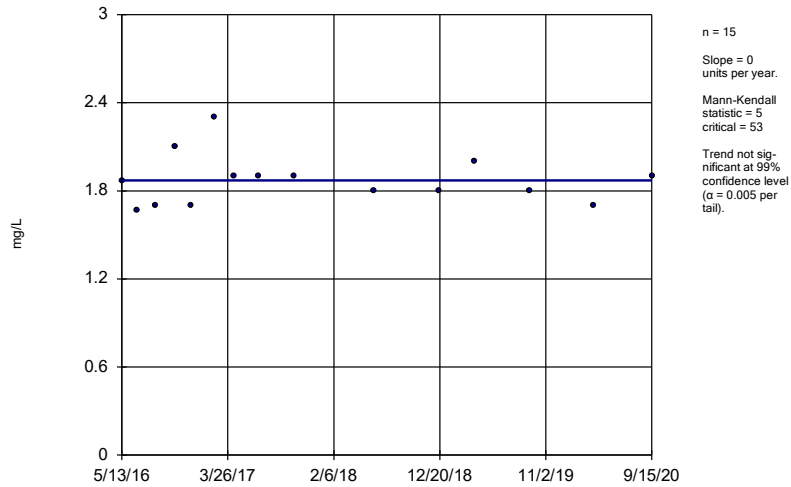
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-18



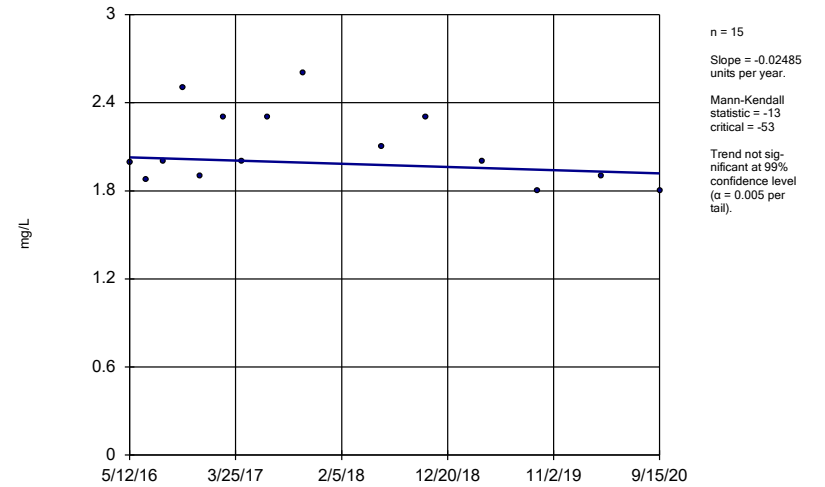
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-19



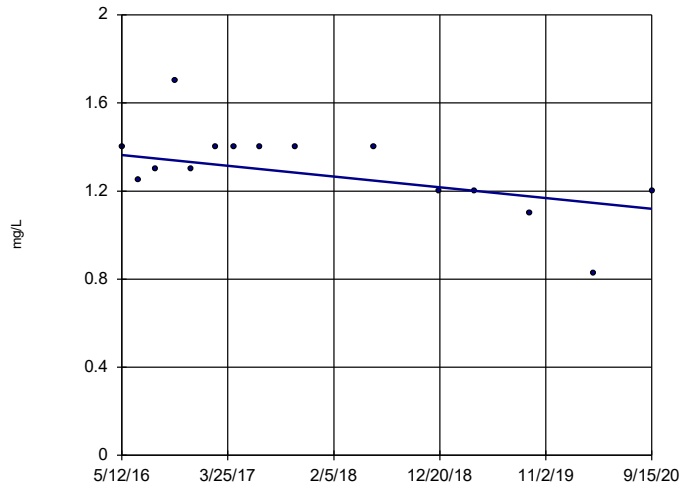
Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-20



Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

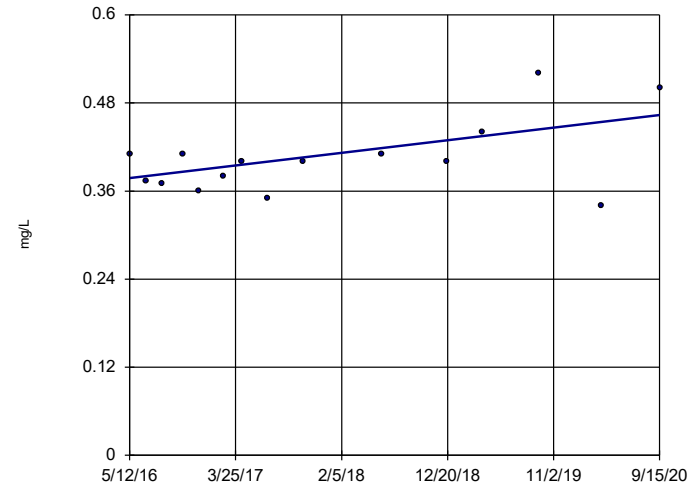
Sen's Slope Estimator  
SGWC-21



n = 15  
Slope = -0.05585  
units per year.  
Mann-Kendall  
statistic = -42  
critical = -53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

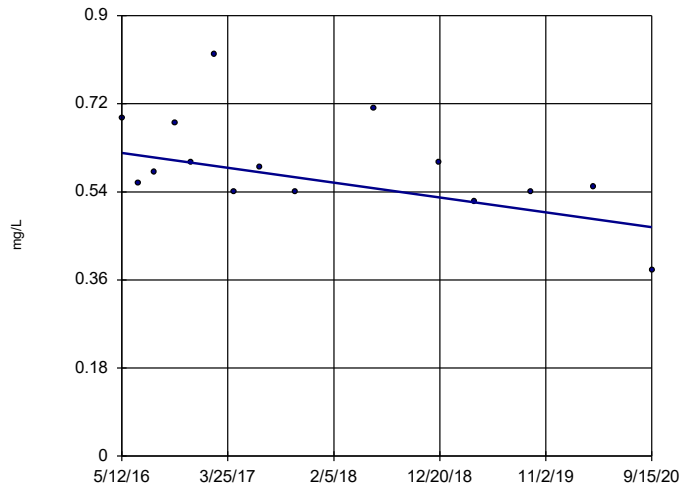
Sen's Slope Estimator  
SGWC-22



n = 15  
Slope = 0.01973  
units per year.  
Mann-Kendall  
statistic = 23  
critical = 53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

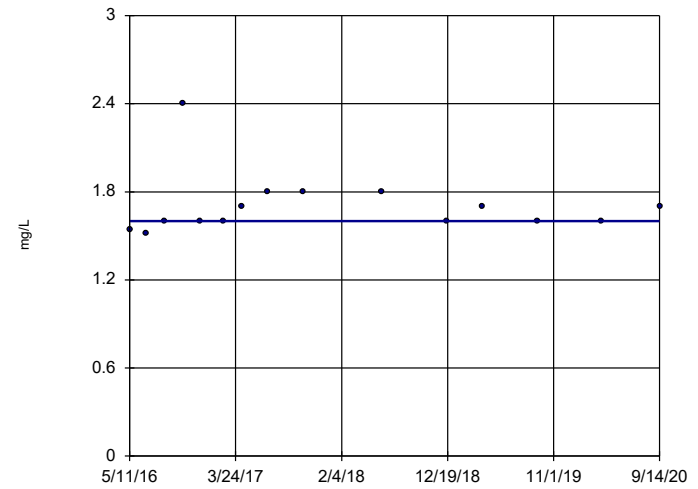
Sen's Slope Estimator  
SGWC-23



n = 15  
Slope = -0.03484  
units per year.  
Mann-Kendall  
statistic = -39  
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Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

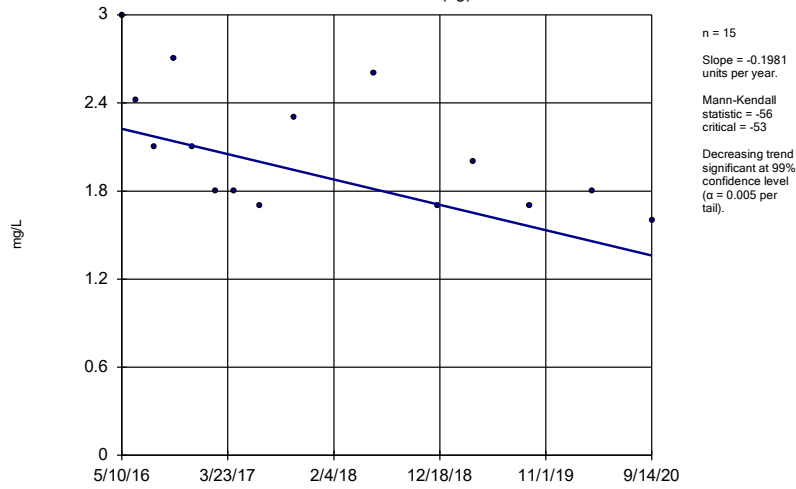
Sen's Slope Estimator  
SGWC-9



n = 15  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 20  
critical = 53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

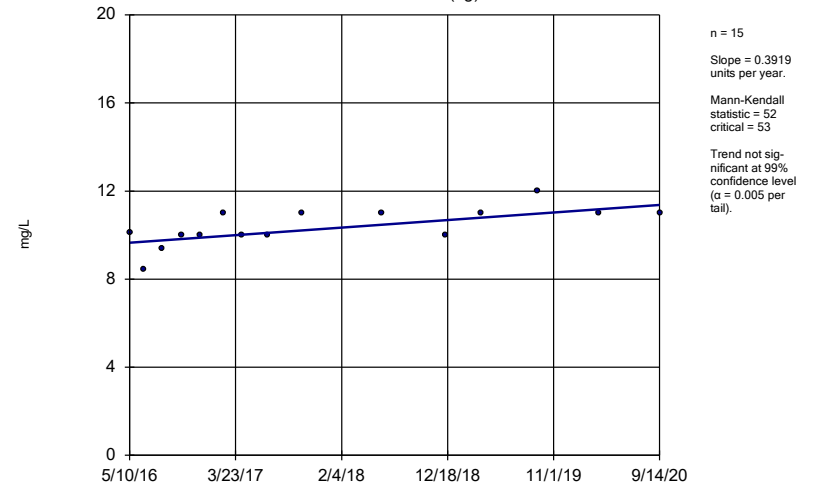
Constituent: Boron, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWA-1 (bg)



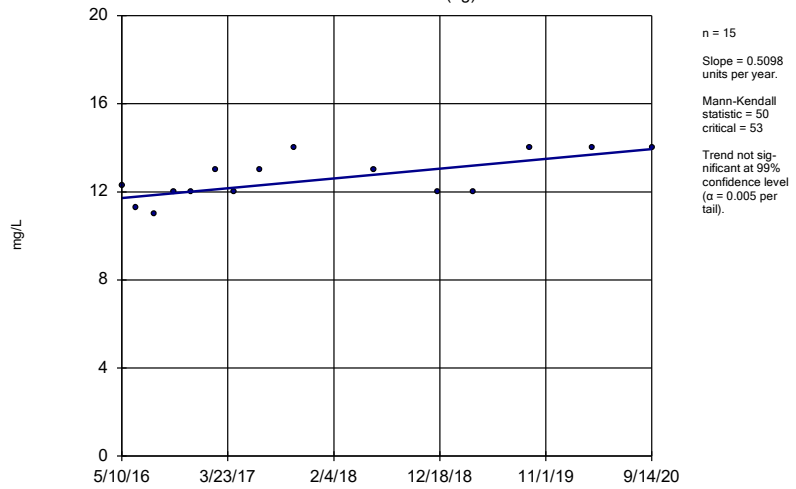
Constituent: Calcium, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWA-2 (bg)



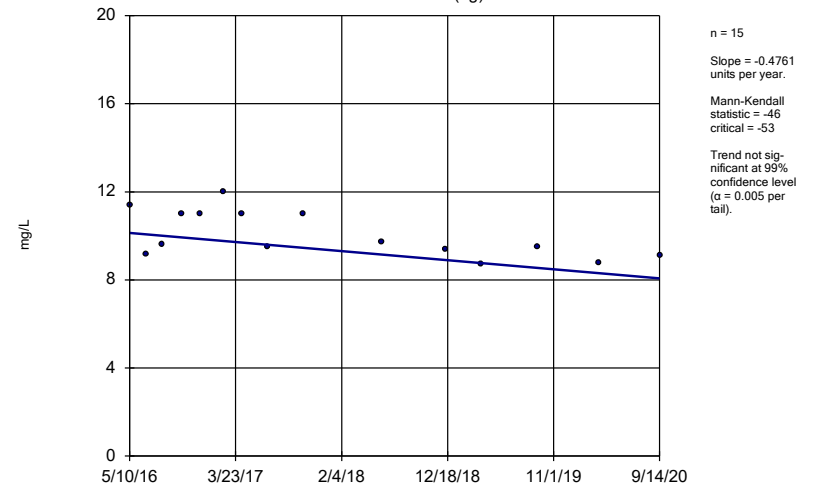
Constituent: Calcium, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWA-24 (bg)



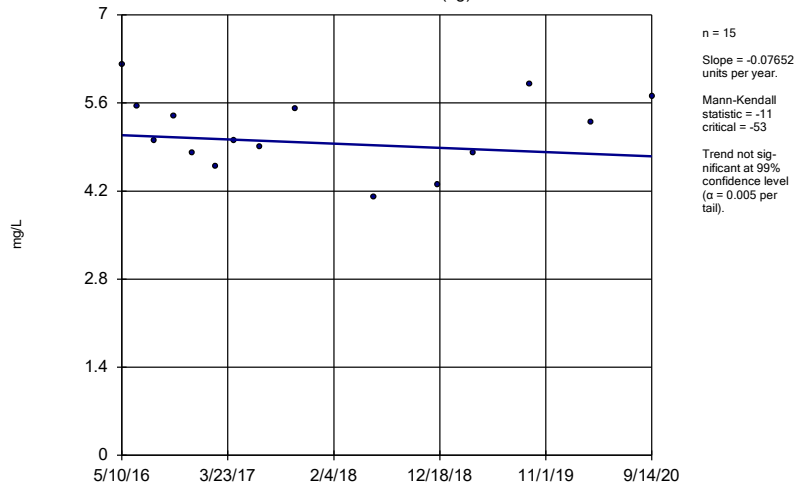
Constituent: Calcium, total Analysis Run 12/9/2020 3:47 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWA-25 (bg)



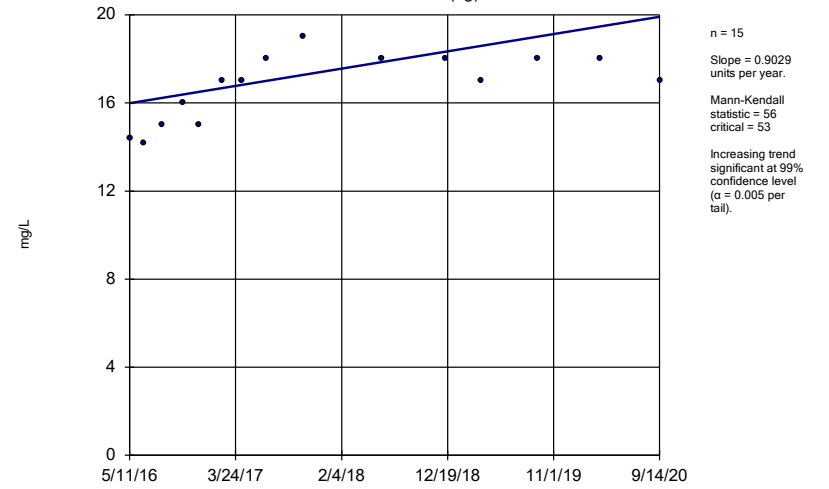
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-3 (bg)



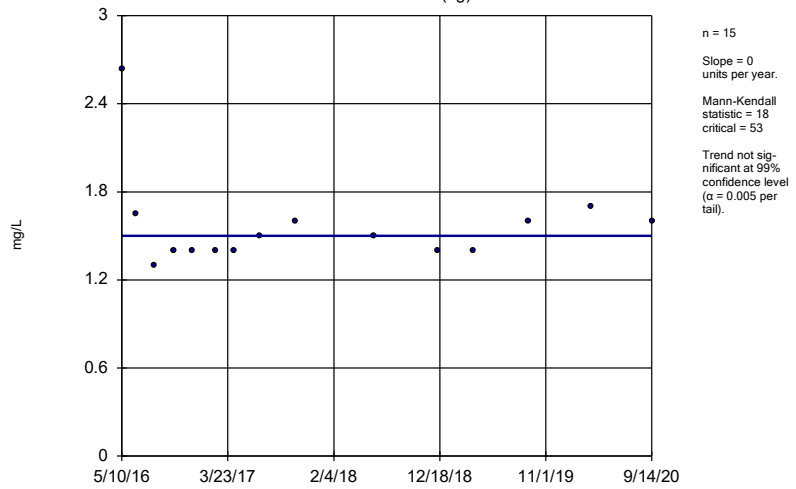
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-4 (bg)



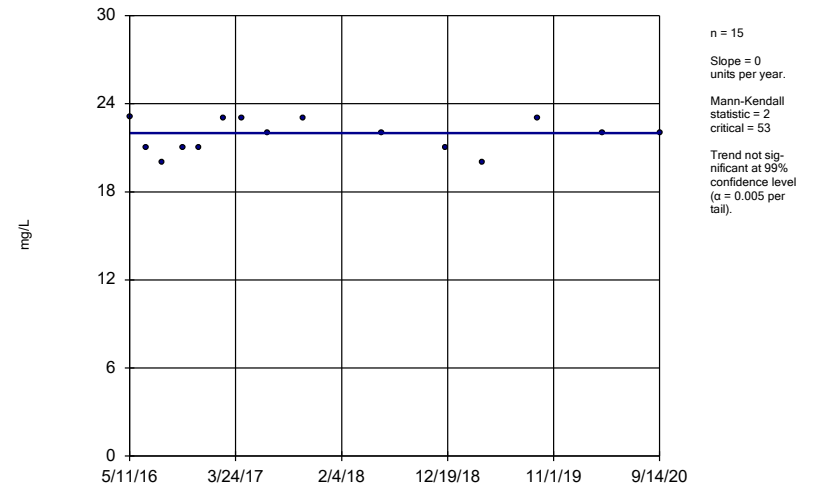
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-5 (bg)



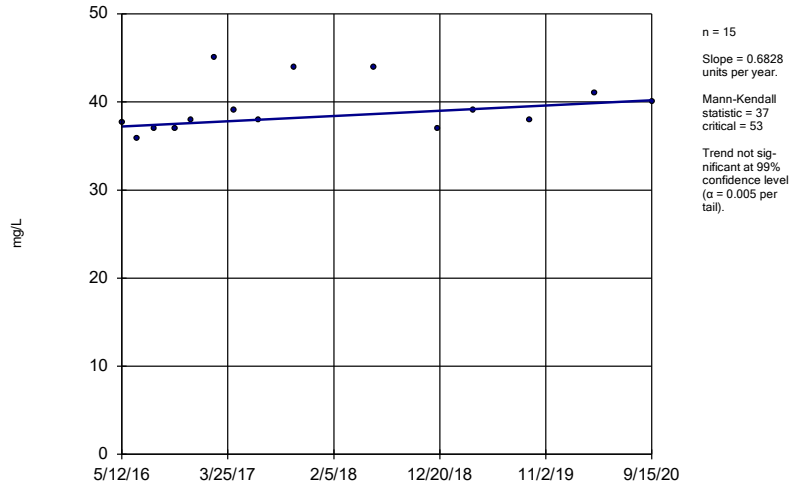
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-12



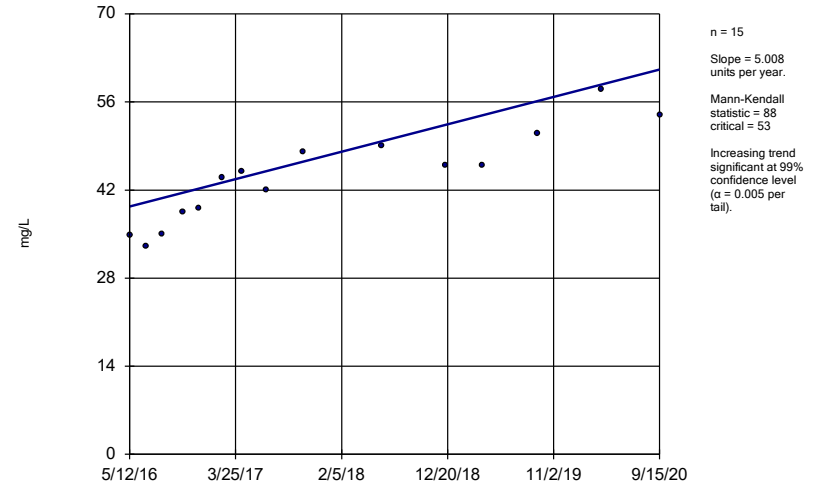
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-14



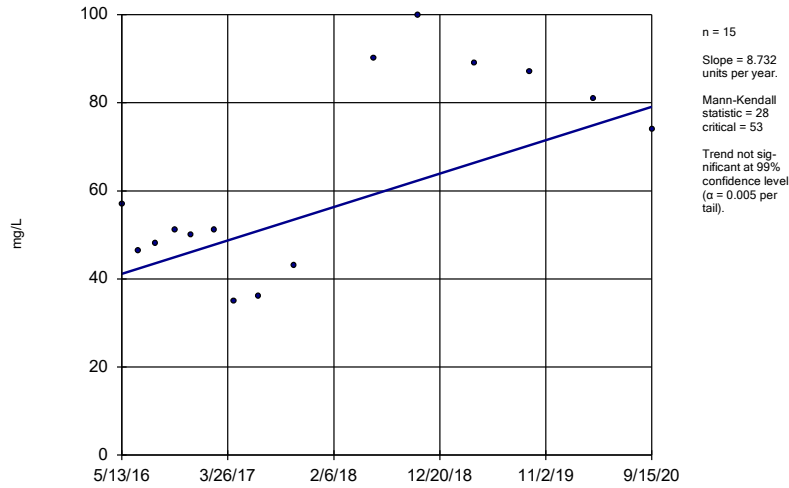
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-17



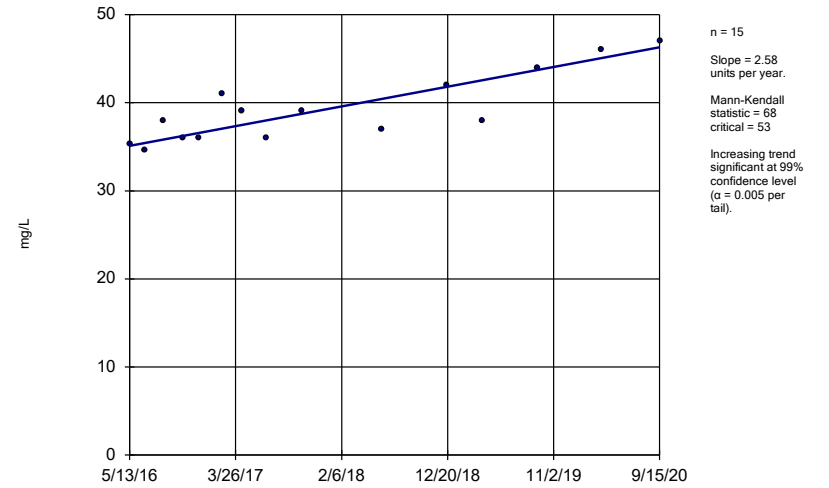
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Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-18



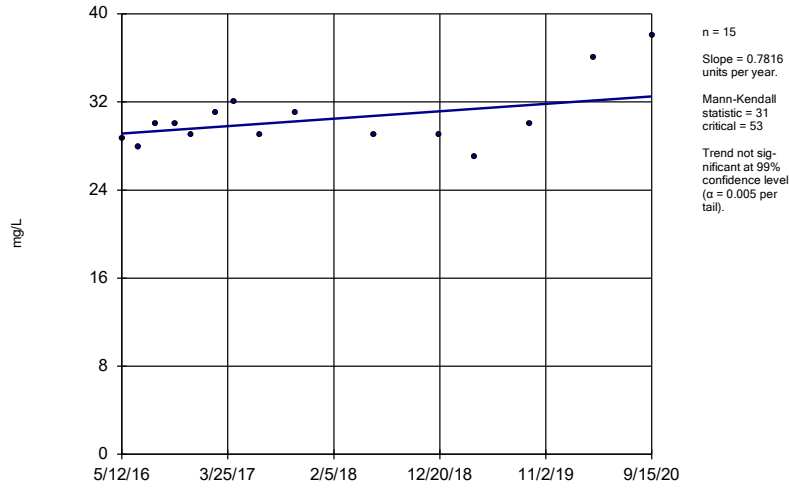
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-19



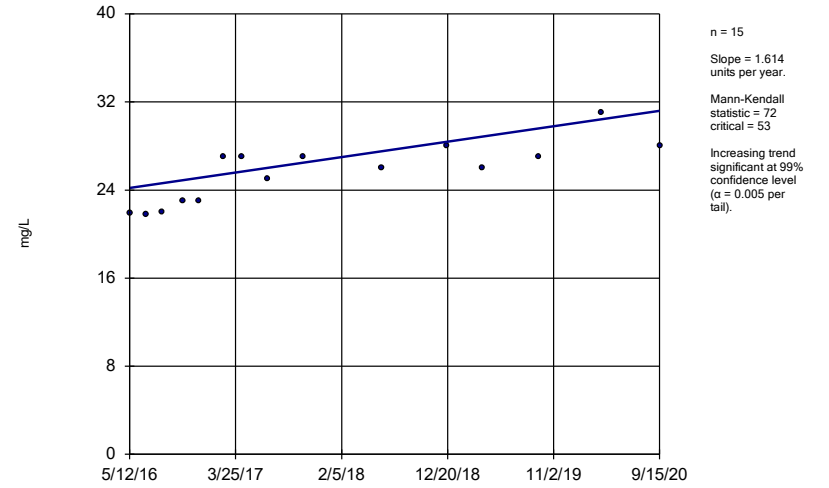
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-21



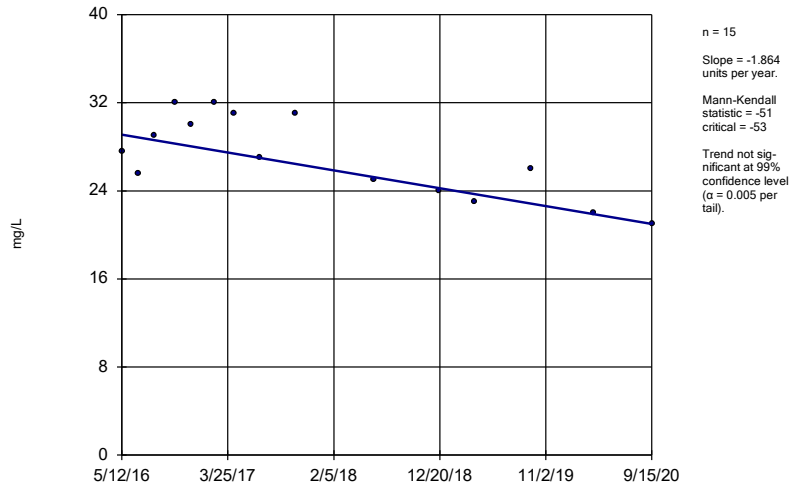
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-22



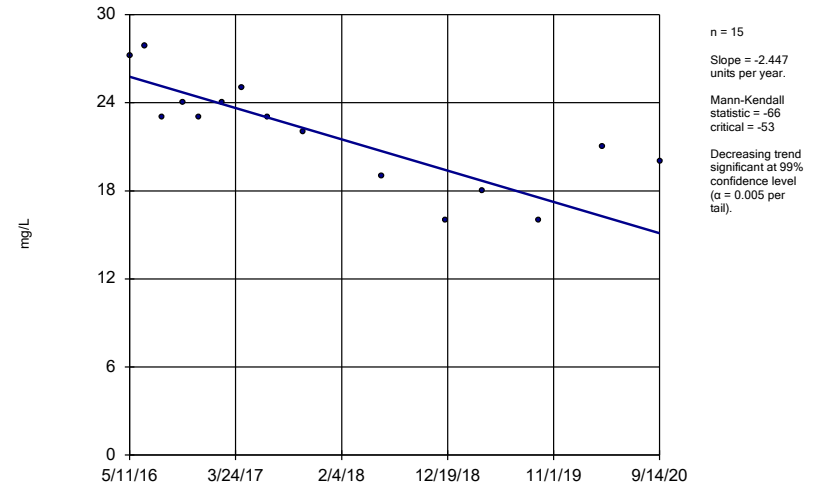
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-23



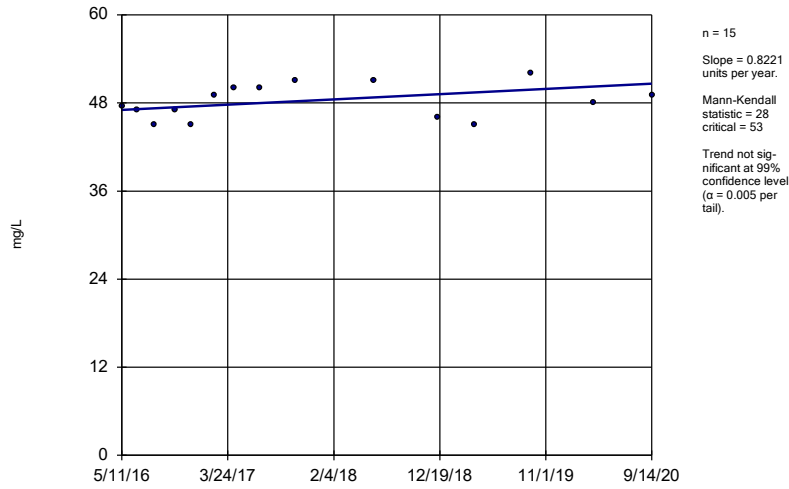
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-7



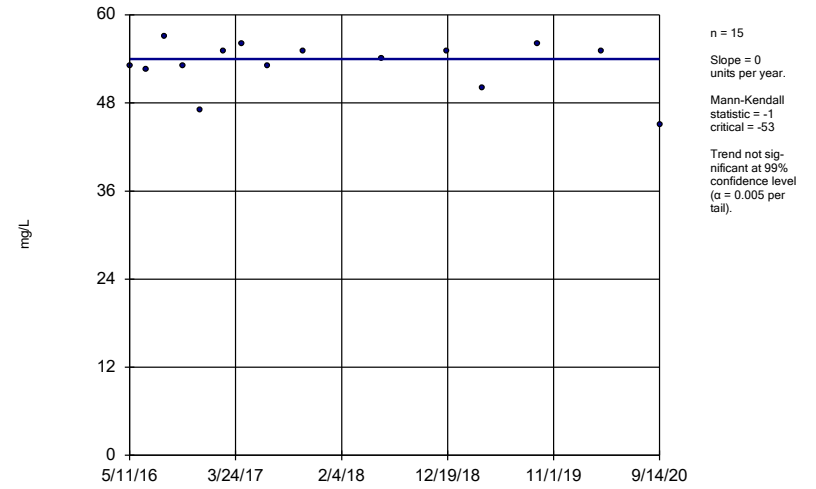
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-8



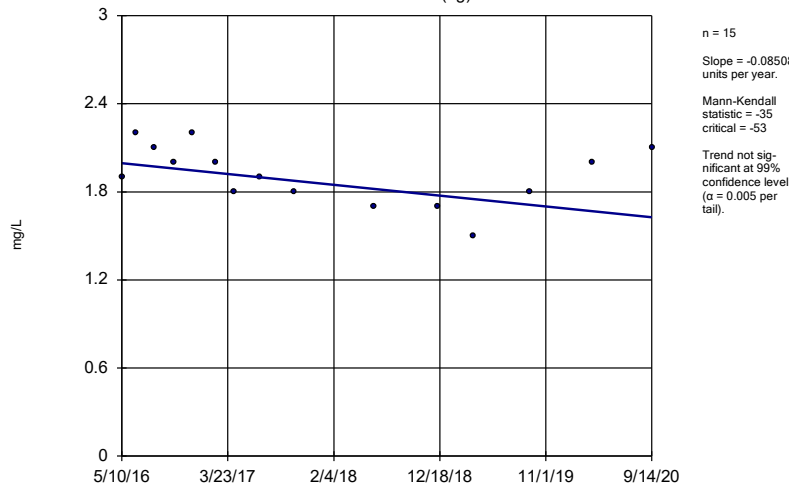
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-9



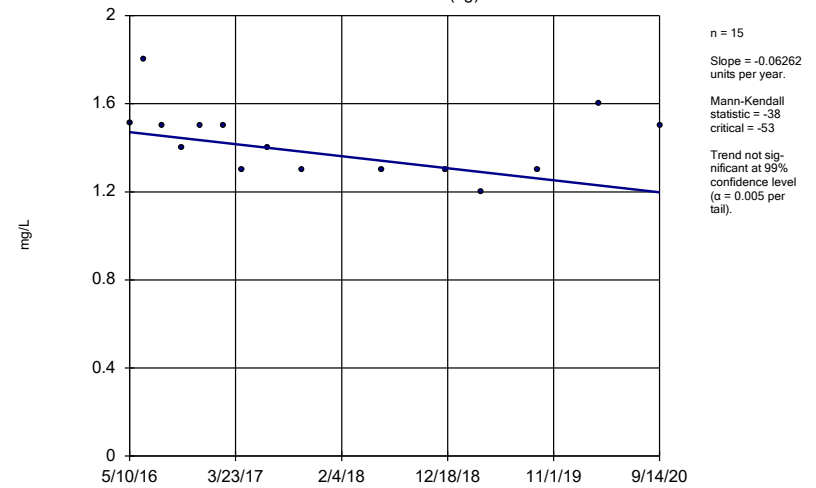
Constituent: Calcium, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-1 (bg)



Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-2 (bg)

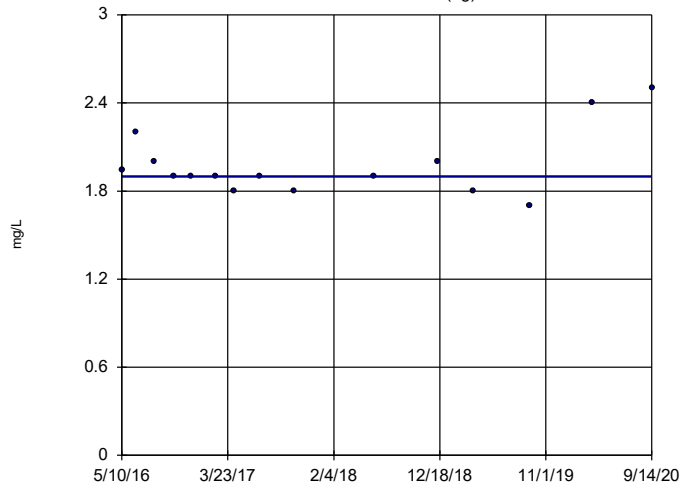


Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP



### Sen's Slope Estimator

SGWA-24 (bg)

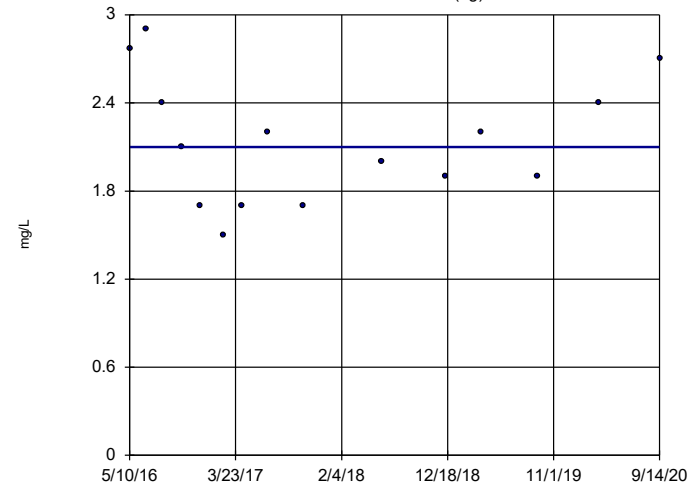


n = 15  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -11  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

SGWA-25 (bg)

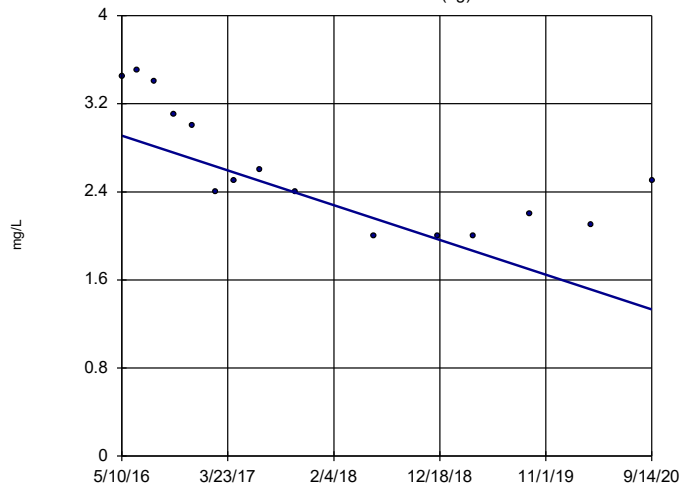


n = 15  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -3  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

SGWA-3 (bg)

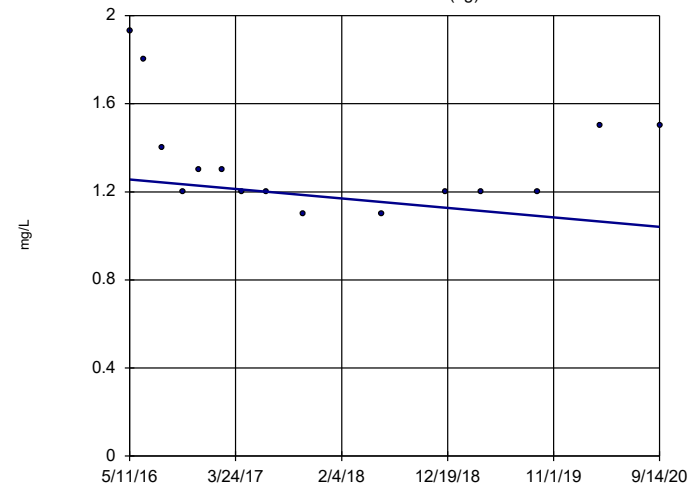


n = 15  
 Slope = -0.3625  
 units per year.  
 Mann-Kendall  
 statistic = -66  
 critical = -53  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

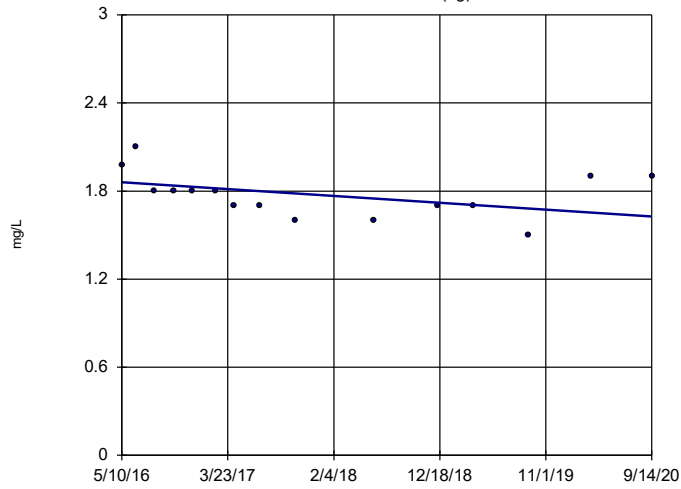
SGWA-4 (bg)



n = 15  
 Slope = -0.04953  
 units per year.  
 Mann-Kendall  
 statistic = -27  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

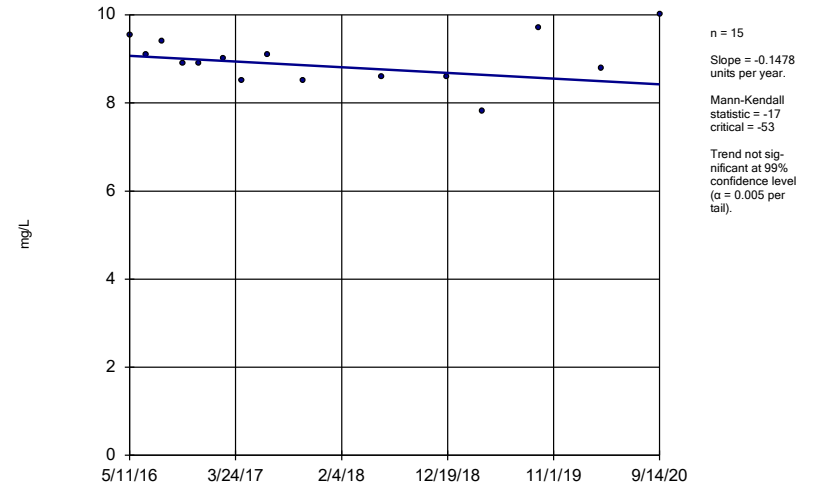
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWA-5 (bg)



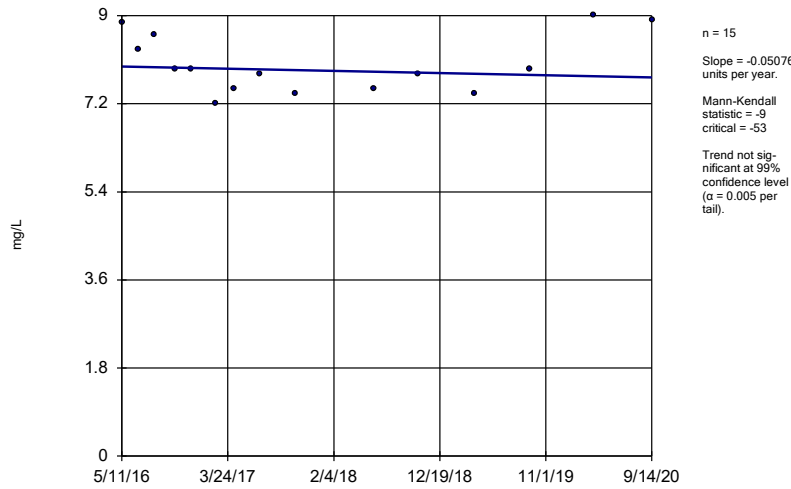
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-10



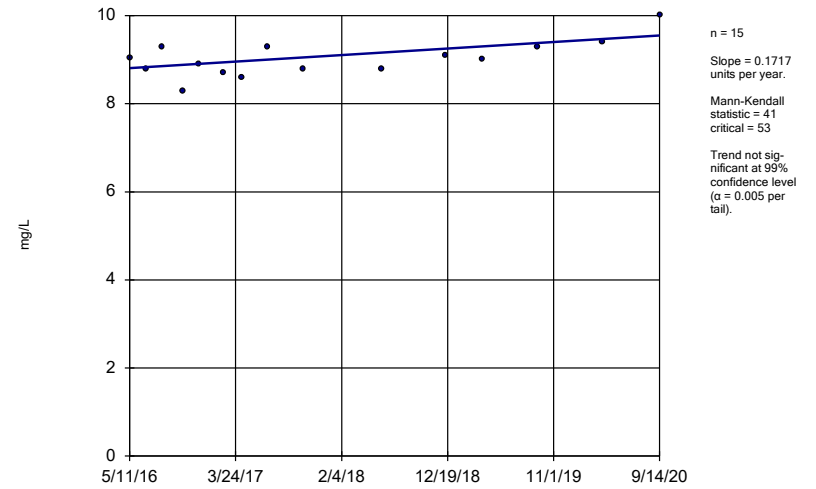
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-11



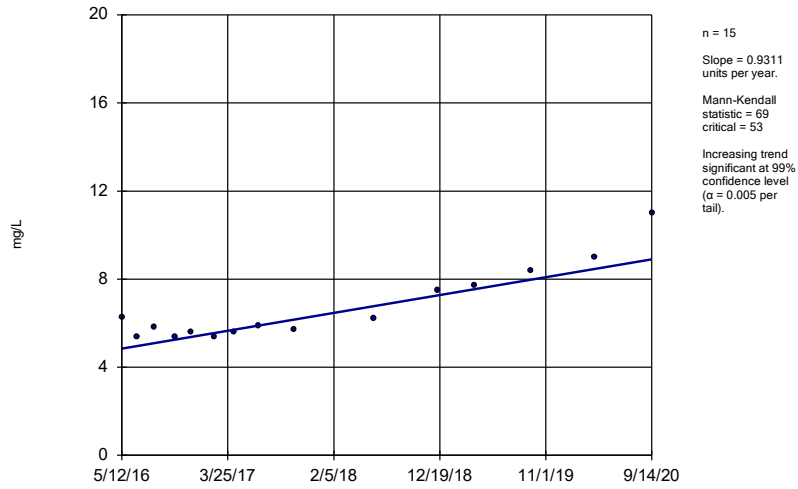
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-12

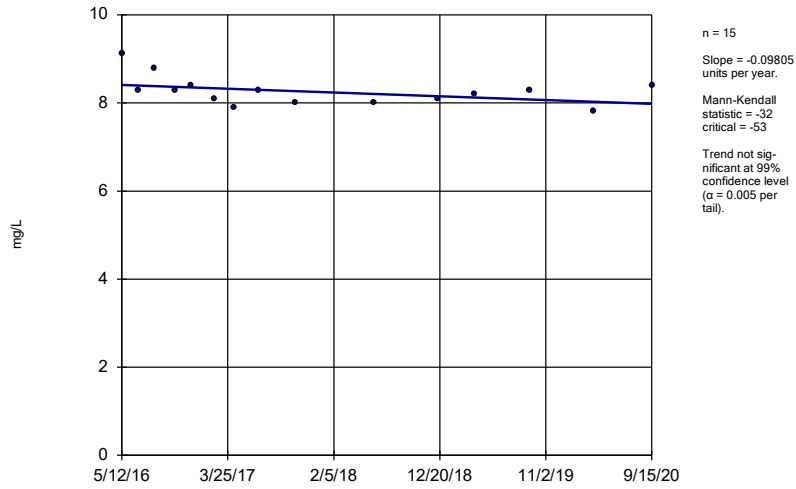


Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-13

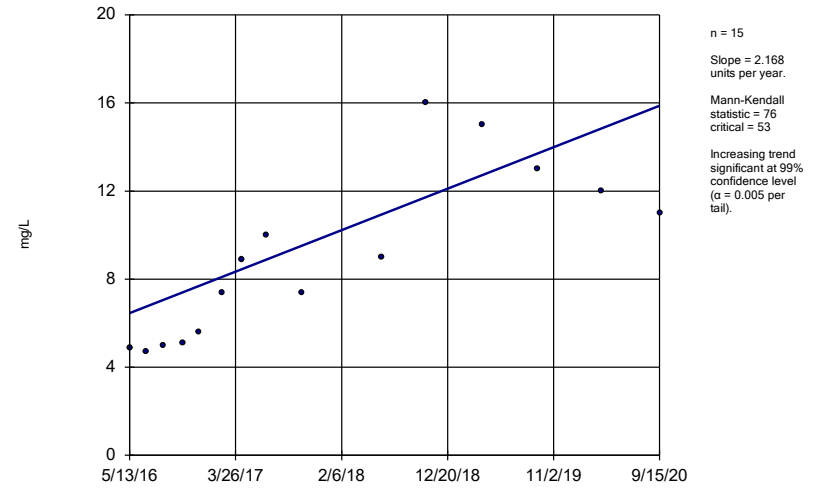


### Sen's Slope Estimator SGWC-17



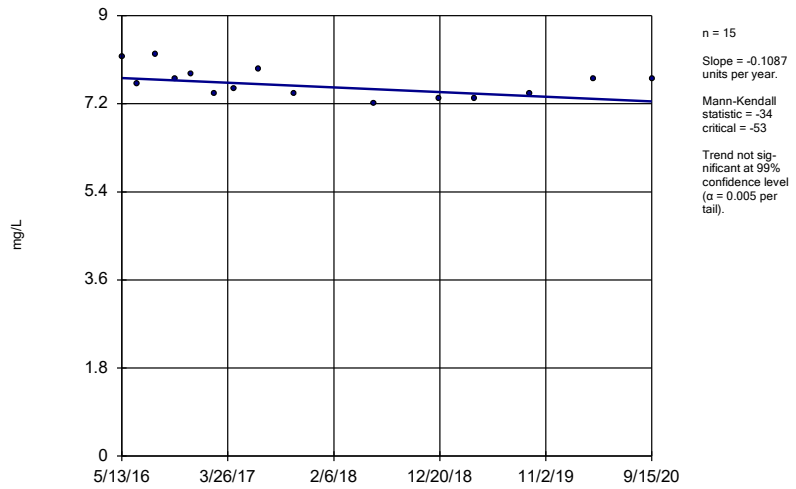
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-18



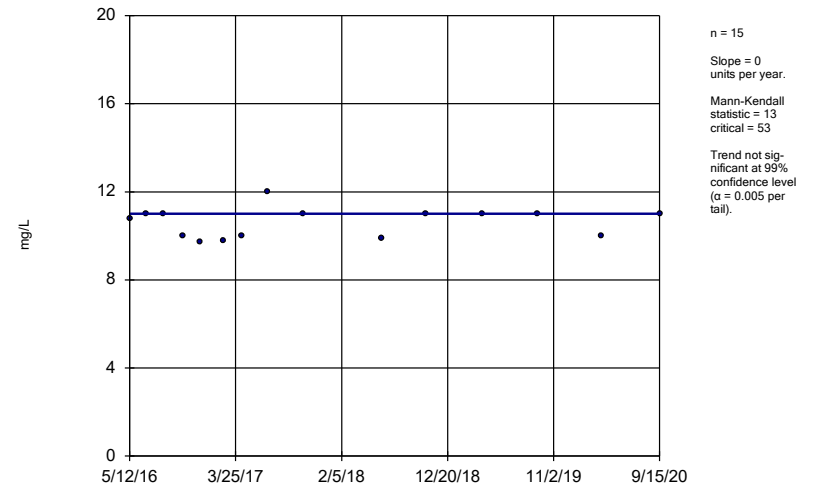
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-19



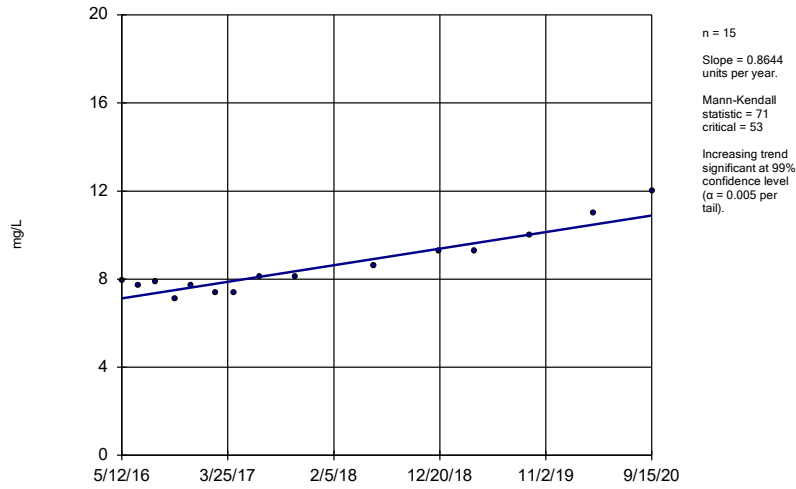
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-20



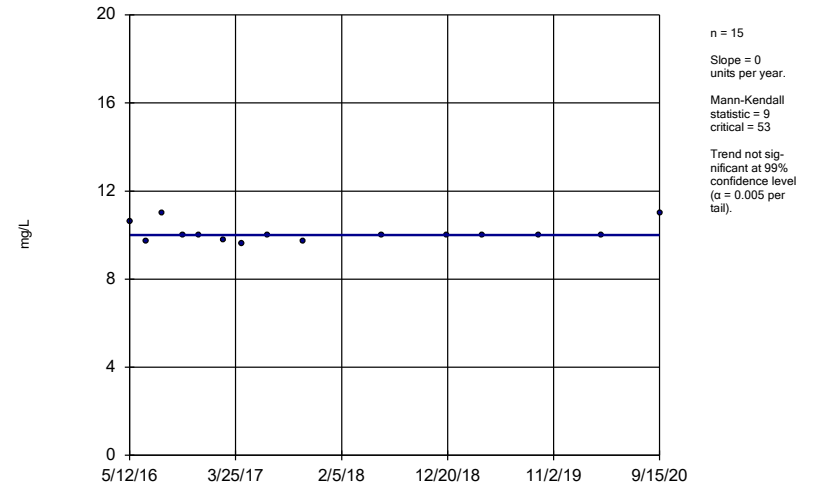
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-21



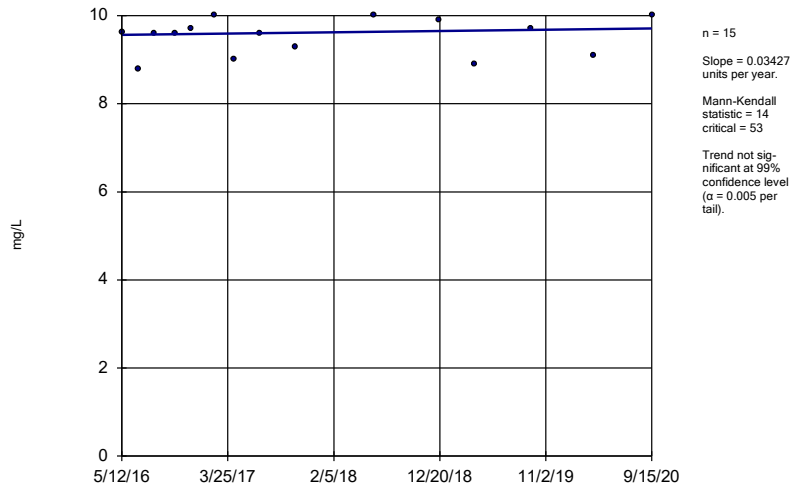
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-22



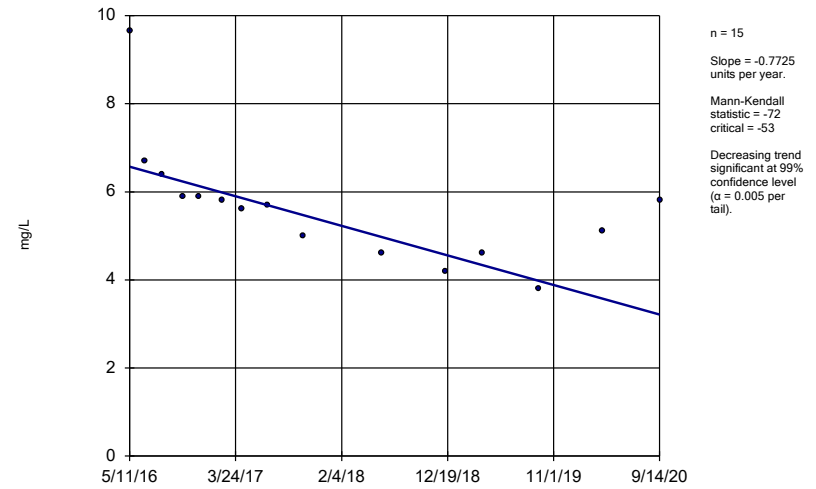
Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-23



Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

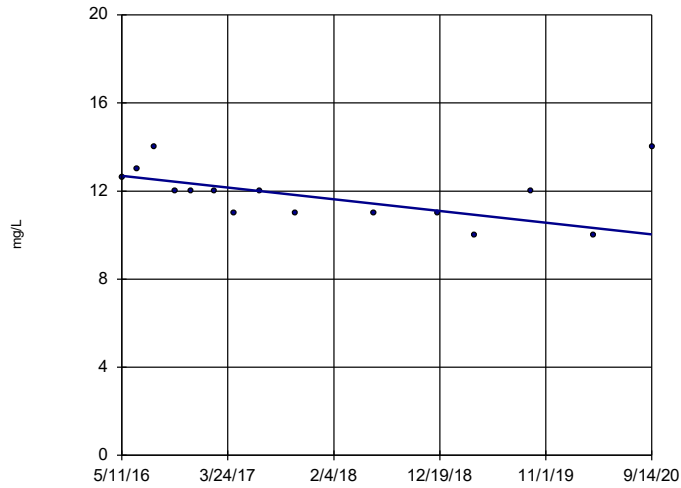
### Sen's Slope Estimator SGWC-7



Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

SGWC-8

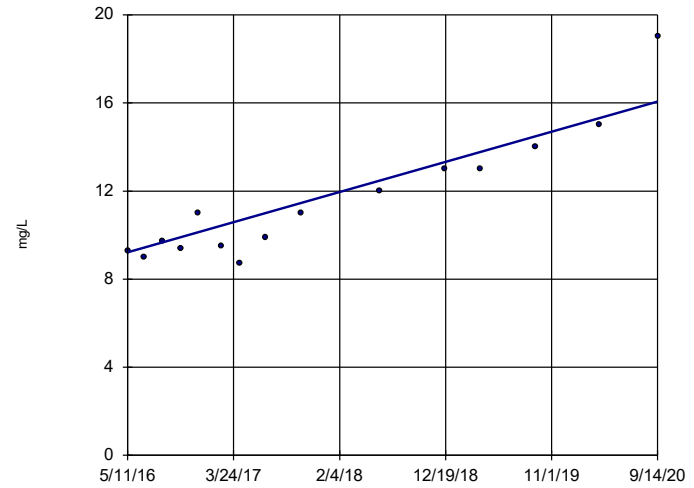


n = 15  
 Slope = -0.6114  
 units per year.  
 Mann-Kendall  
 statistic = -43  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

SGWC-9

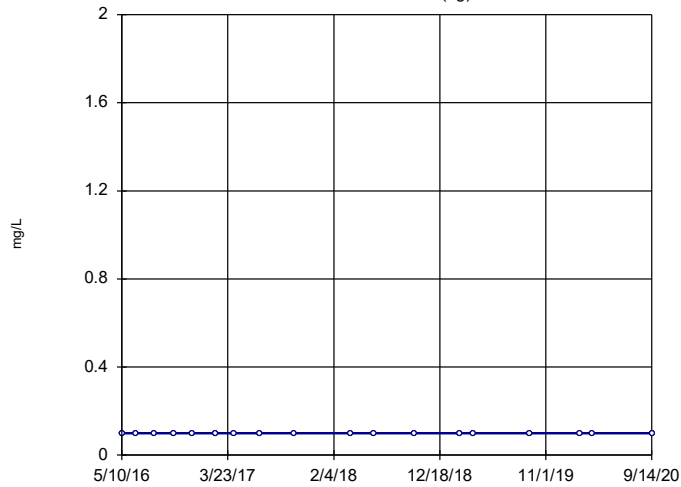


n = 15  
 Slope = 1.573  
 units per year.  
 Mann-Kendall  
 statistic = 81  
 critical = 53  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

SGWA-1 (bg)

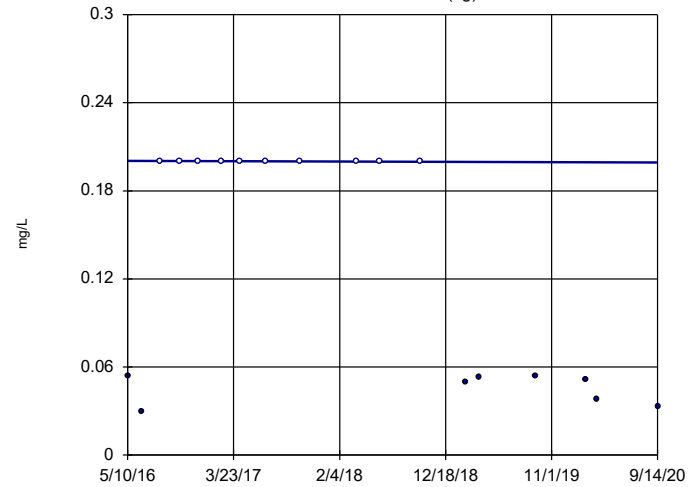


n = 18  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

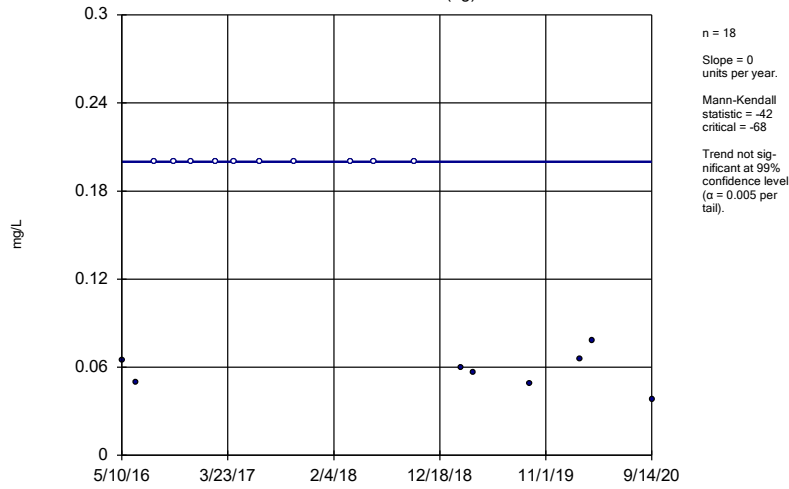
SGWA-2 (bg)



n = 18  
 Slope = -0.0002426  
 units per year.  
 Mann-Kendall  
 statistic = -46  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

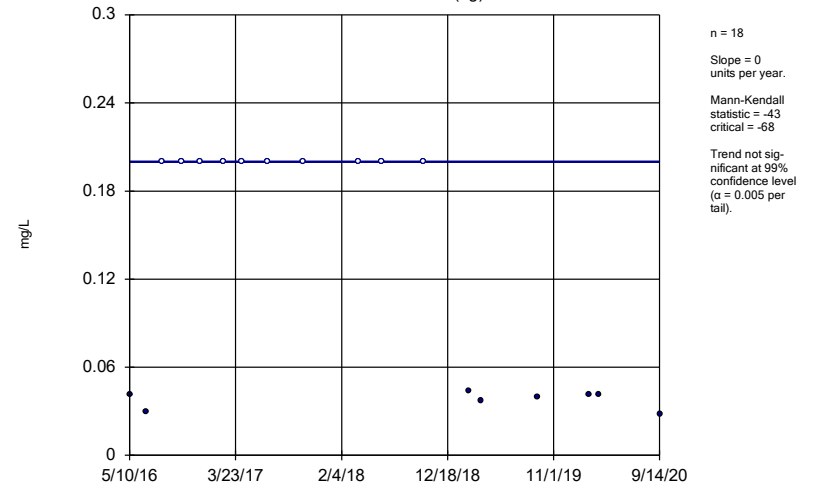
Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-24 (bg)



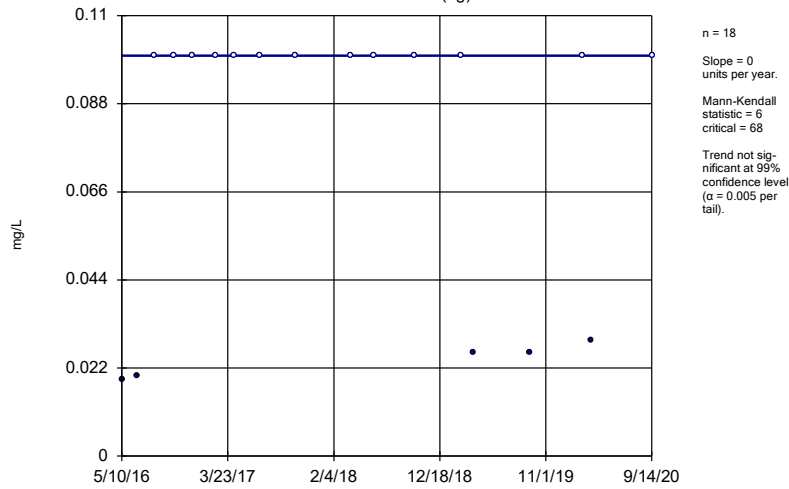
Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-25 (bg)



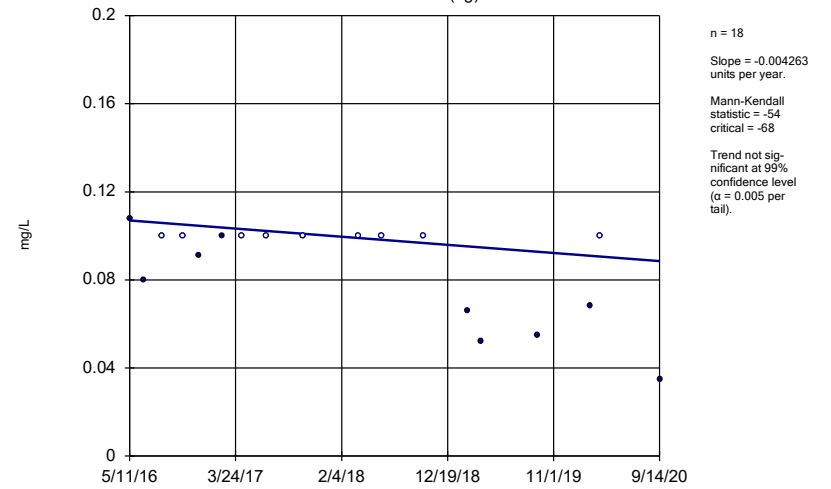
Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-3 (bg)



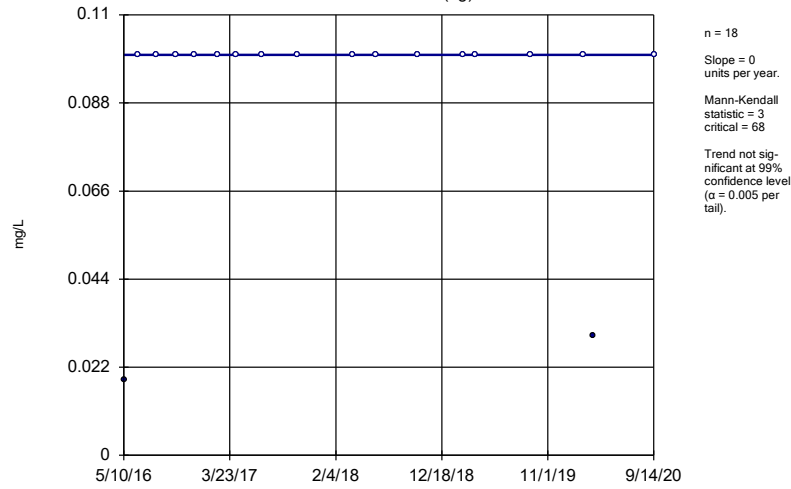
Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-4 (bg)



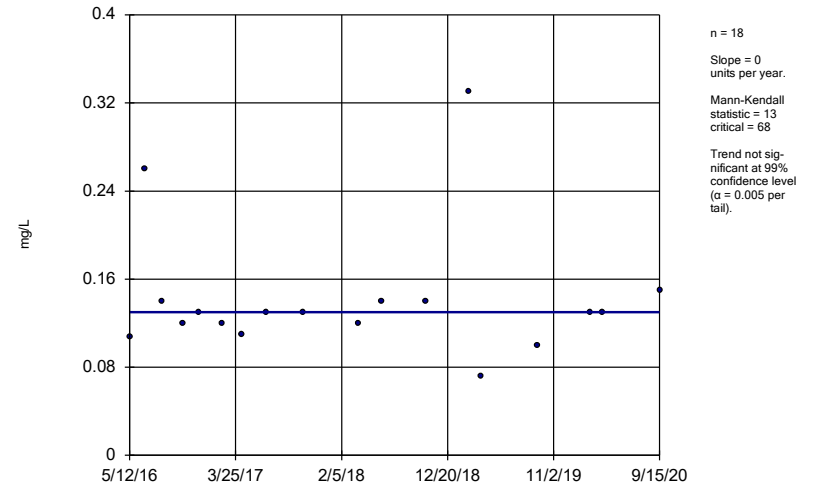
Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-5 (bg)



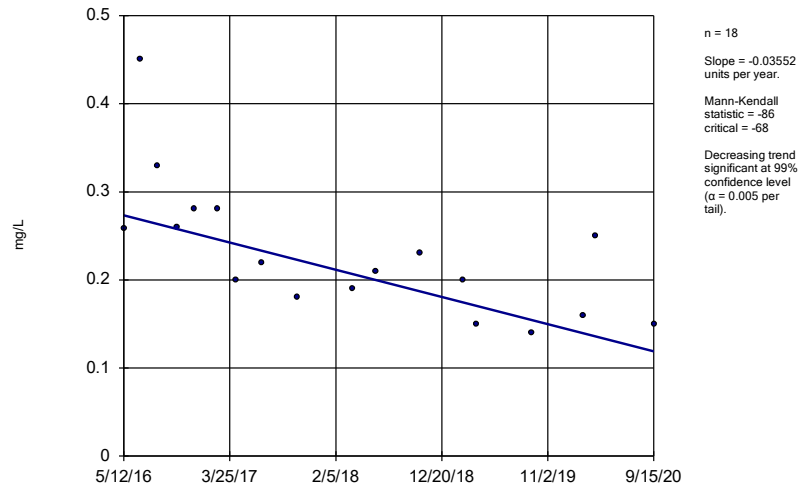
Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-15



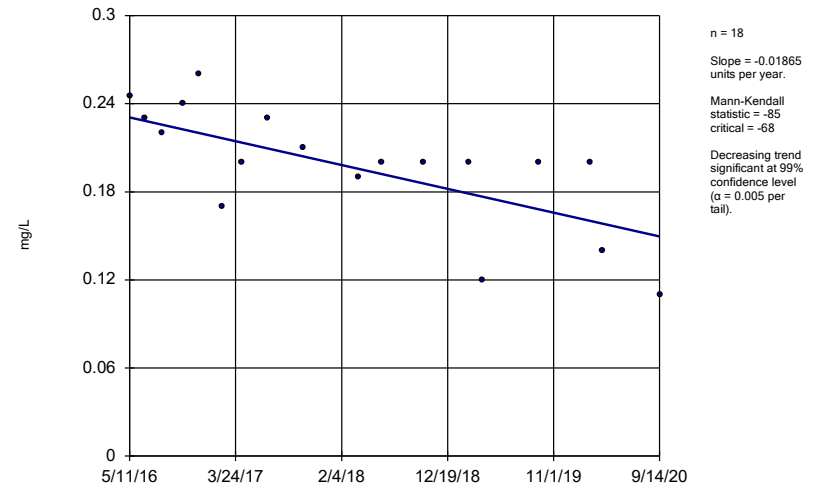
Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-20



Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

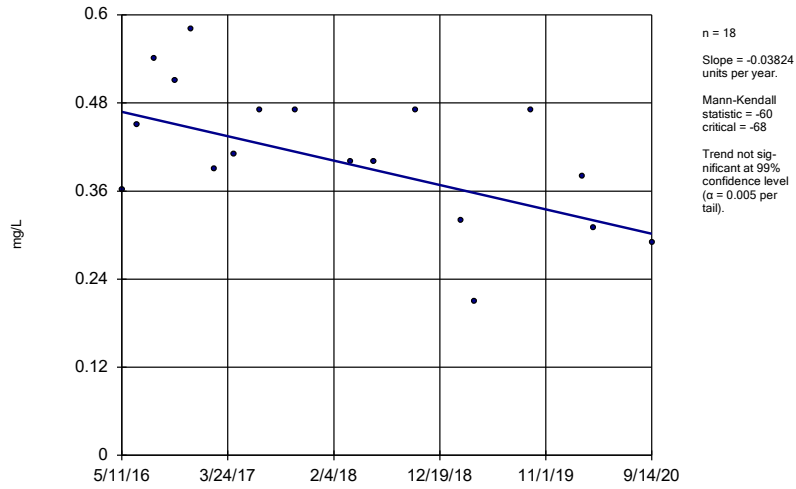
Sen's Slope Estimator  
SGWC-7



Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP



Sen's Slope Estimator  
SGWC-8



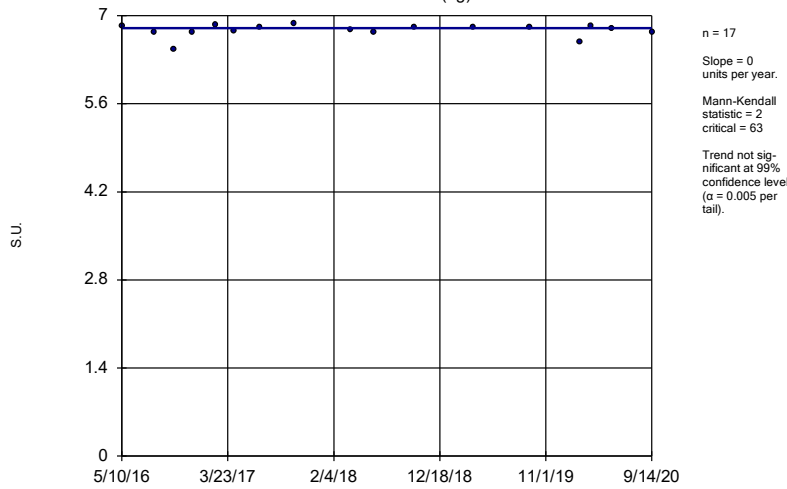
Constituent: Fluoride, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-1 (bg)



Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-2 (bg)



Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

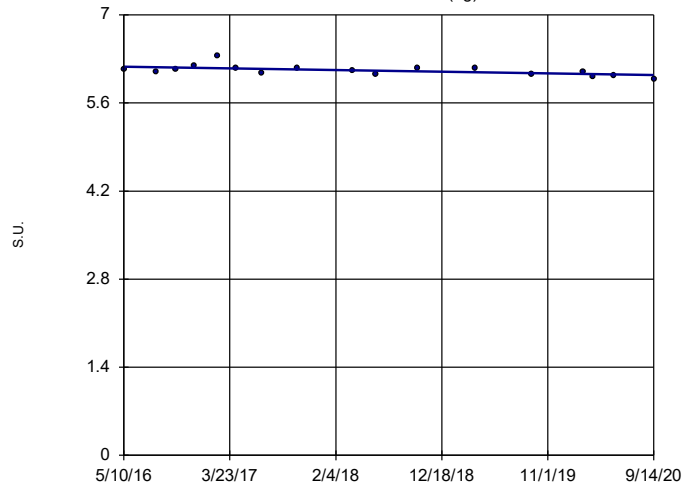
Sen's Slope Estimator  
SGWA-24 (bg)



Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

SGWA-25 (bg)

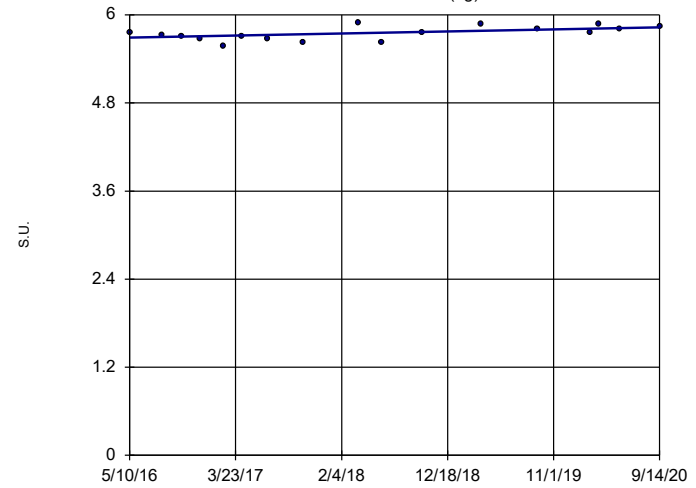


n = 17  
 Slope = -0.03068  
 units per year.  
 Mann-Kendall  
 statistic = -65  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

SGWA-3 (bg)

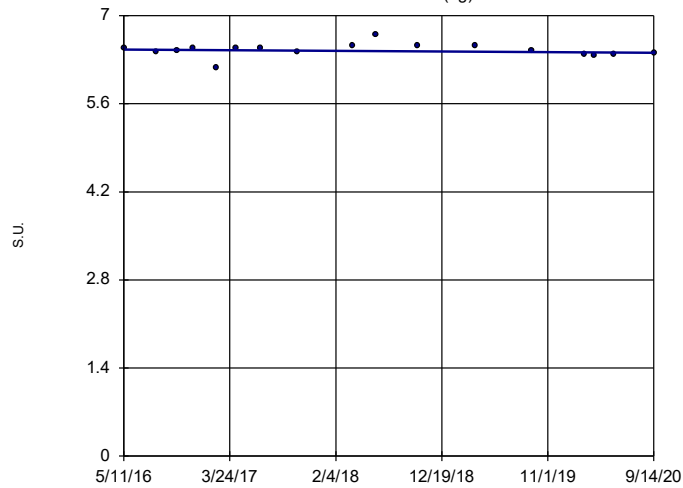


n = 17  
 Slope = 0.03166  
 units per year.  
 Mann-Kendall  
 statistic = 41  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

SGWA-4 (bg)

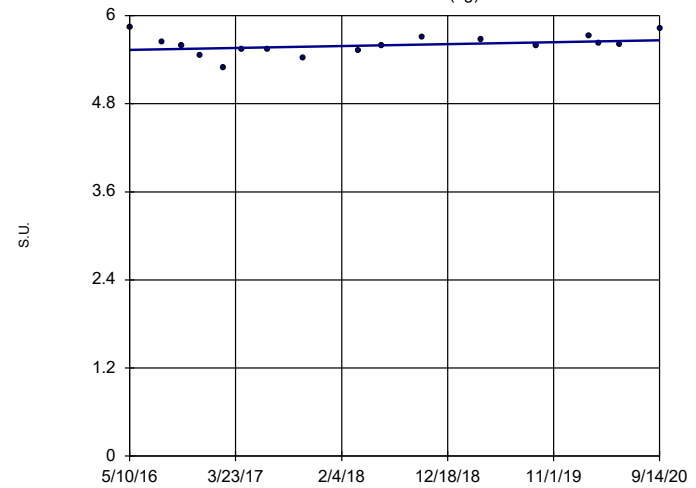


n = 17  
 Slope = -0.01103  
 units per year.  
 Mann-Kendall  
 statistic = -18  
 critical = -63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

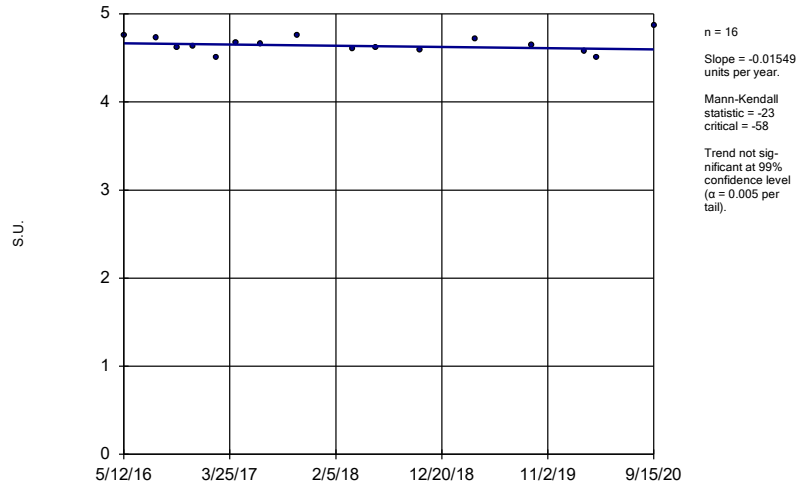
SGWA-5 (bg)



n = 17  
 Slope = 0.03099  
 units per year.  
 Mann-Kendall  
 statistic = 34  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

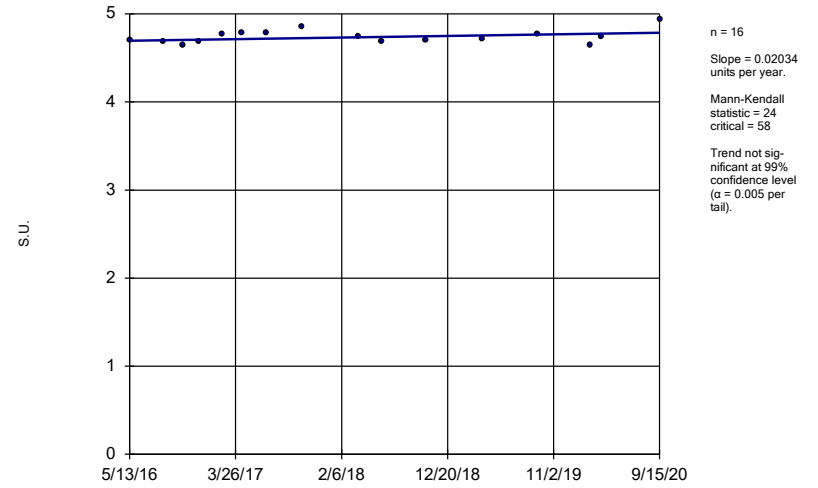
Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
 Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-15



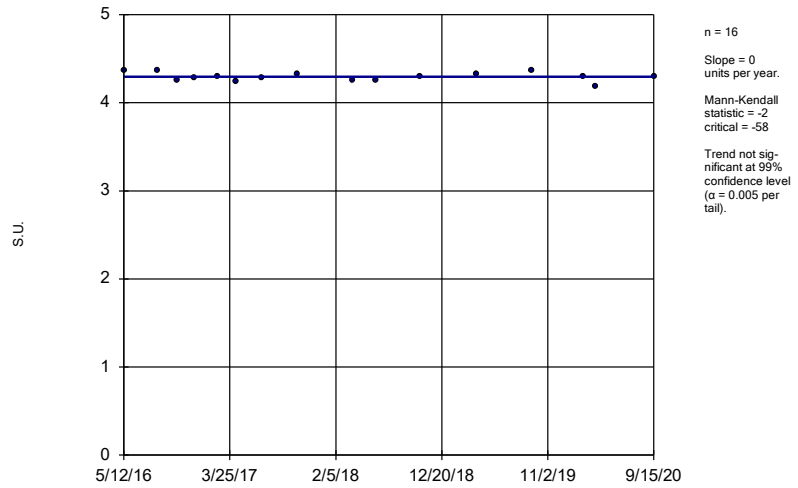
Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-18



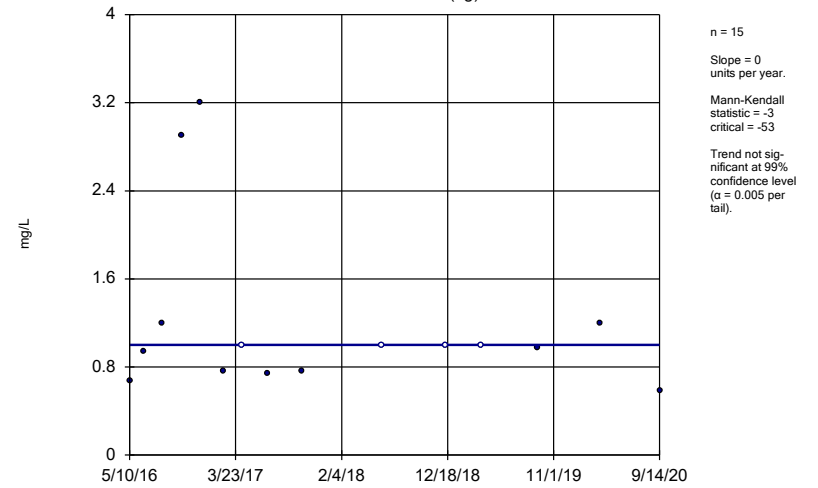
Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-20



Constituent: pH Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

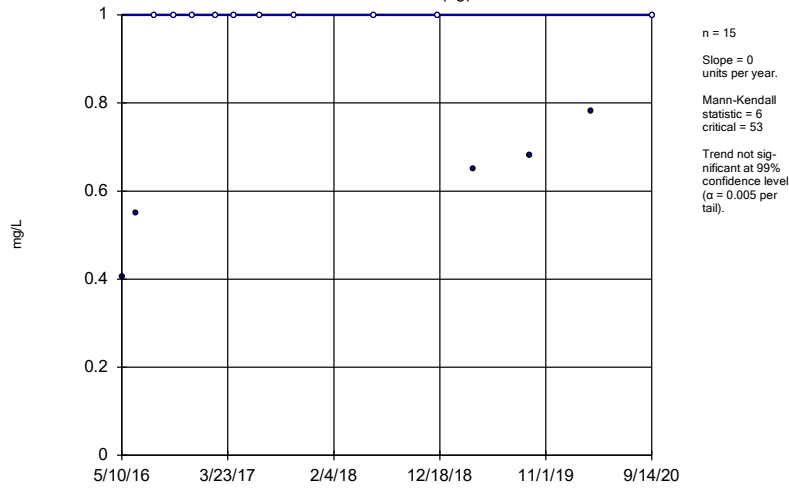
Sen's Slope Estimator  
SGWA-1 (bg)



Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

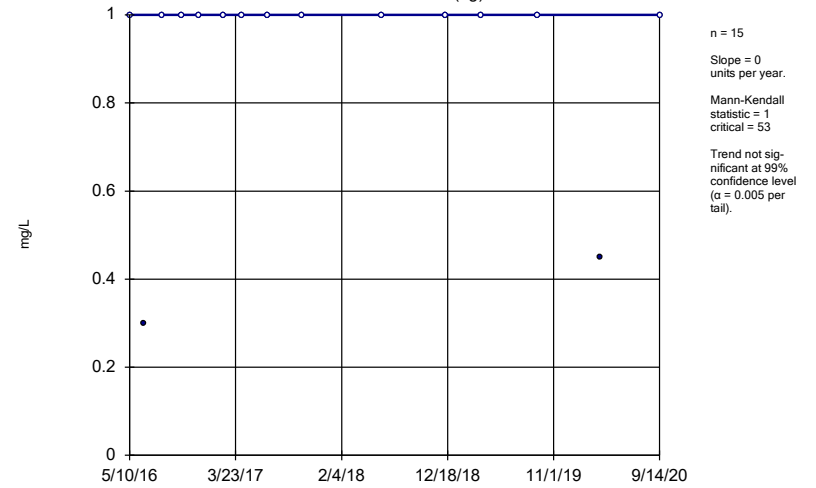
SGWA-2 (bg)



Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

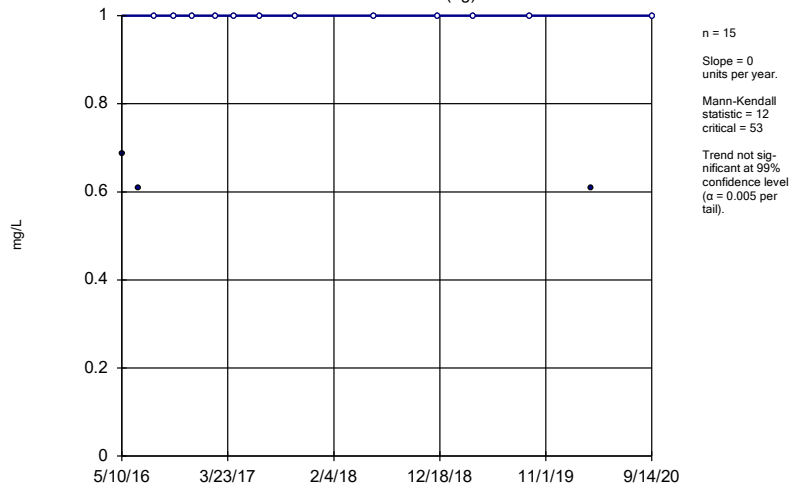
SGWA-24 (bg)



Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator

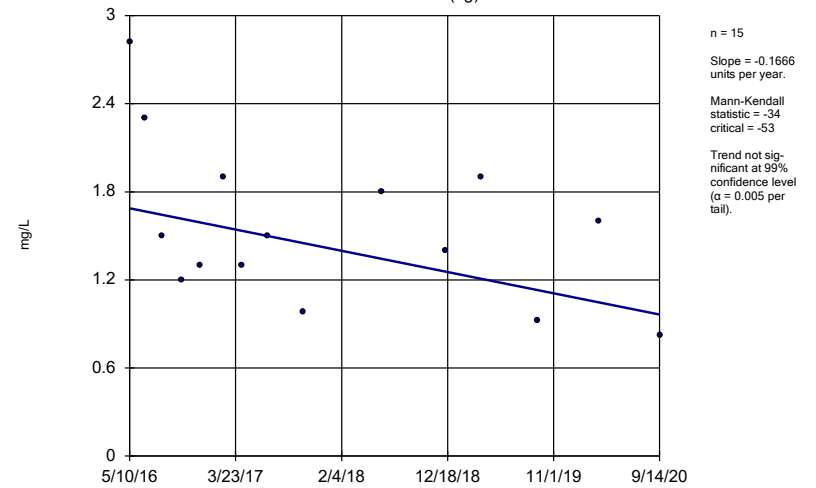
SGWA-25 (bg)



Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

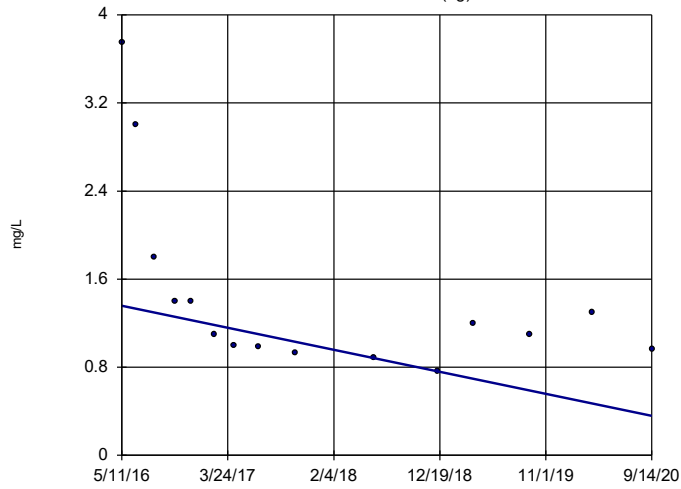
### Sen's Slope Estimator

SGWA-3 (bg)



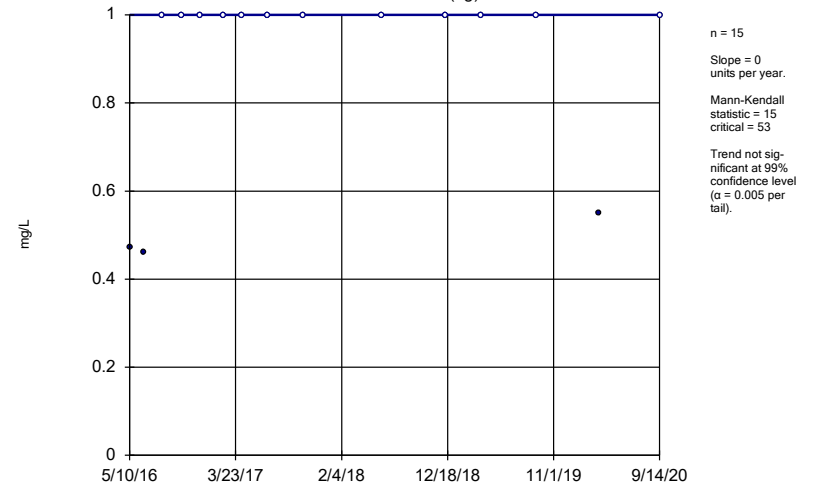
Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-4 (bg)



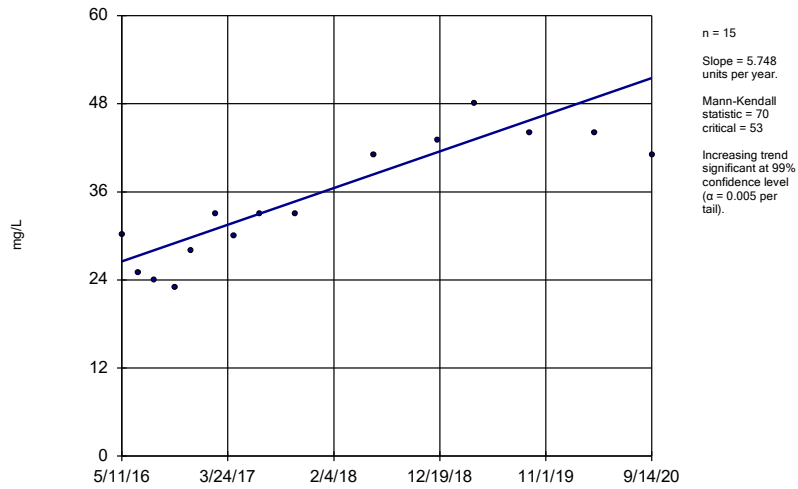
Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-5 (bg)



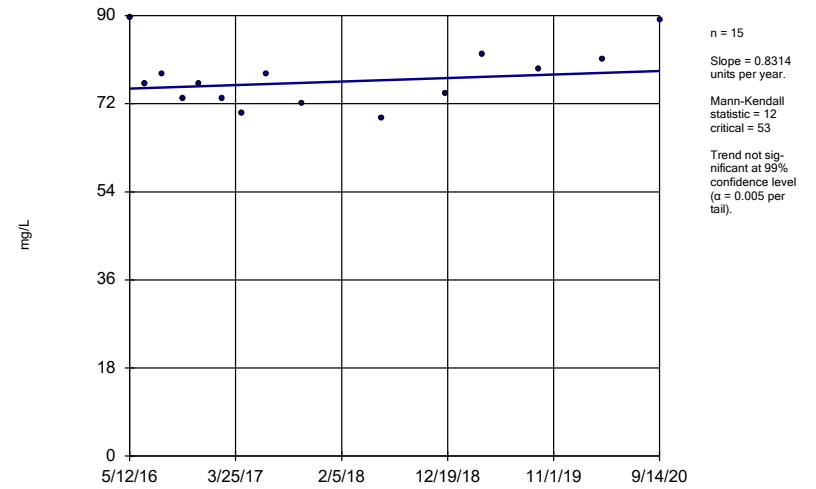
Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-12

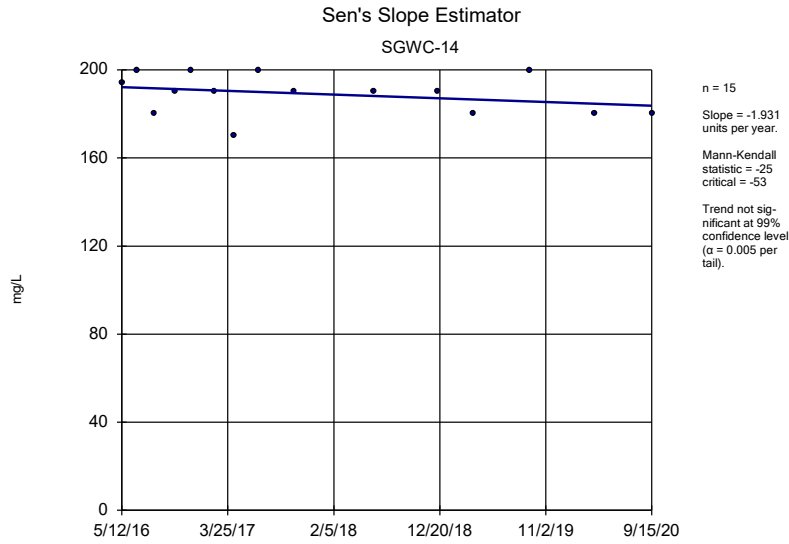


Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

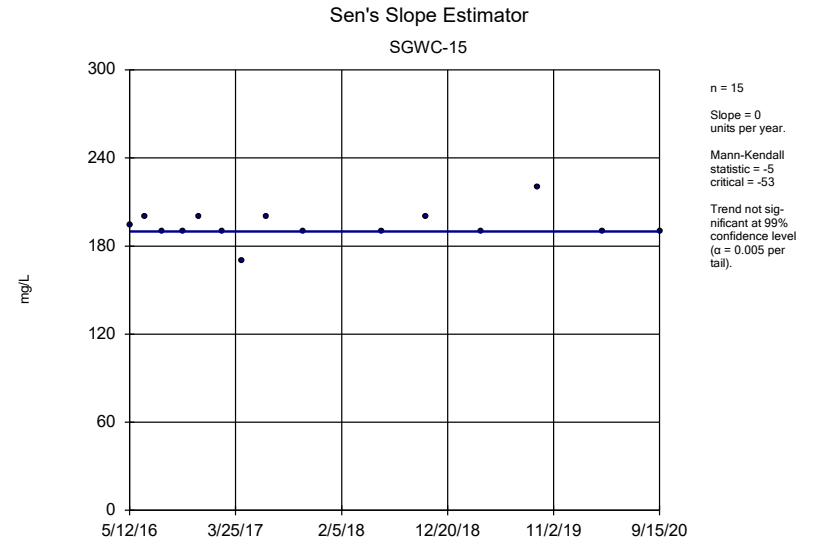
Sen's Slope Estimator  
SGWC-13



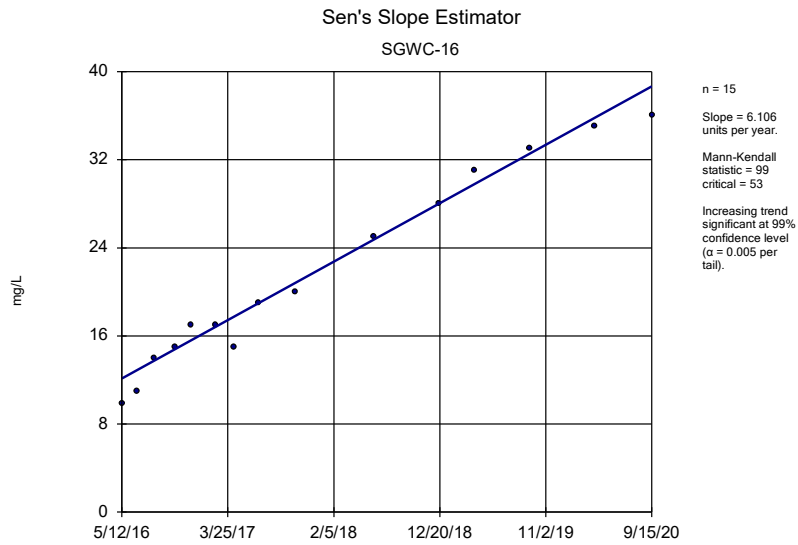
Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP



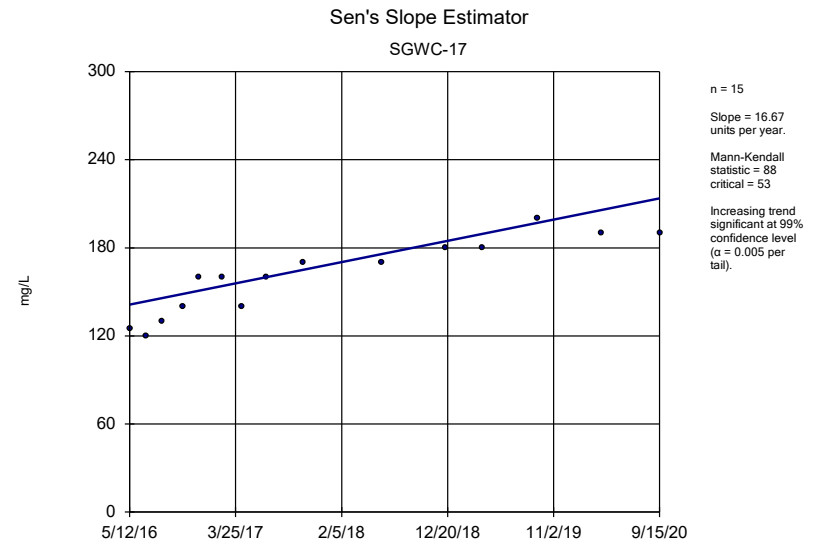
Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP



Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

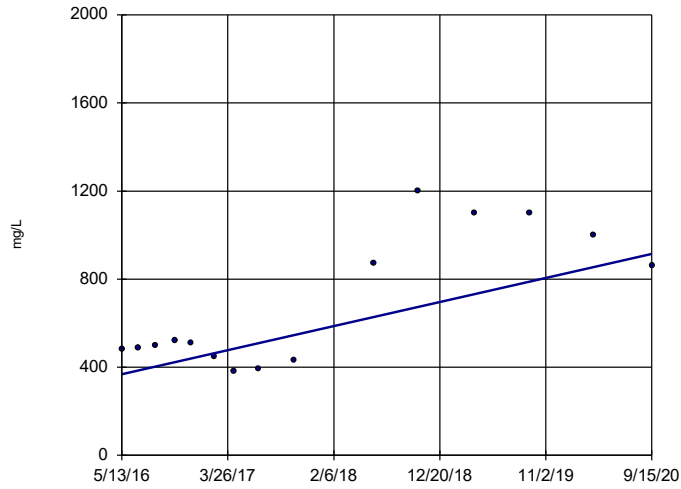


Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP



Constituent: Sulfate, total Analysis Run 12/9/2020 3:48 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

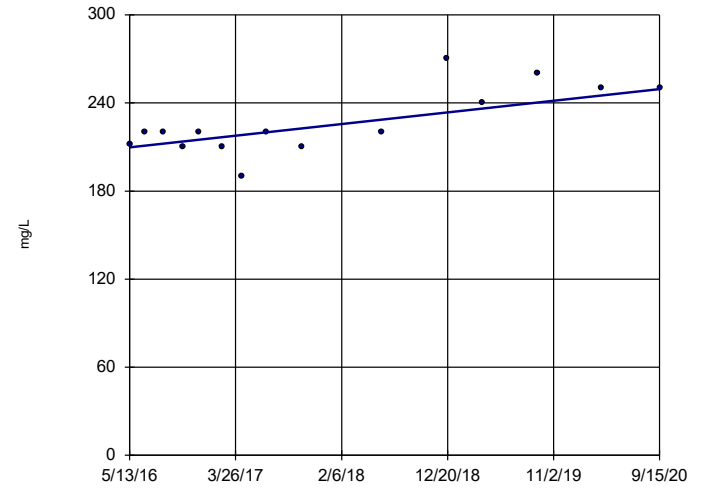
Sen's Slope Estimator  
SGWC-18



n = 15  
Slope = 125.9  
units per year.  
Mann-Kendall  
statistic = 36  
critical = 53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

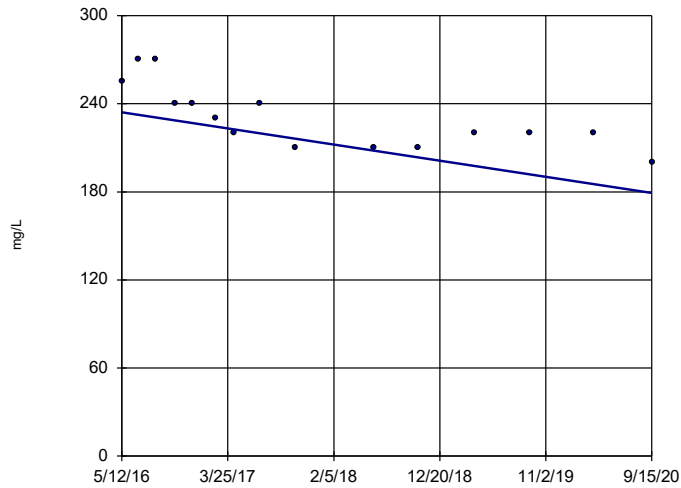
Sen's Slope Estimator  
SGWC-19



n = 15  
Slope = 9.117  
units per year.  
Mann-Kendall  
statistic = 43  
critical = 53  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

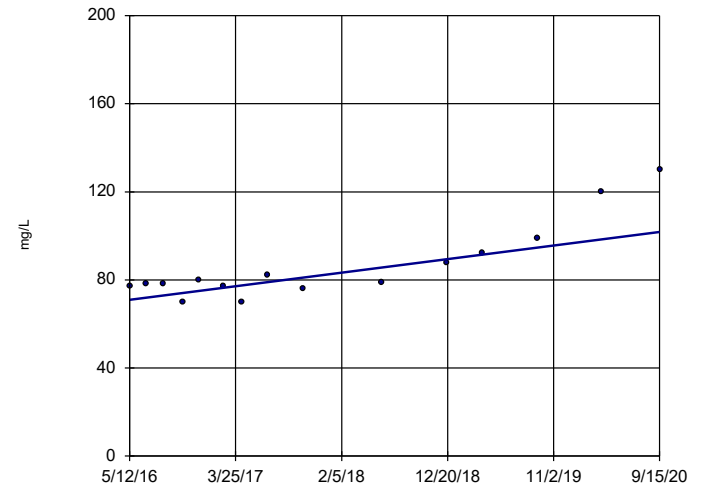
Sen's Slope Estimator  
SGWC-20



n = 15  
Slope = -12.65  
units per year.  
Mann-Kendall  
statistic = -66  
critical = -53  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

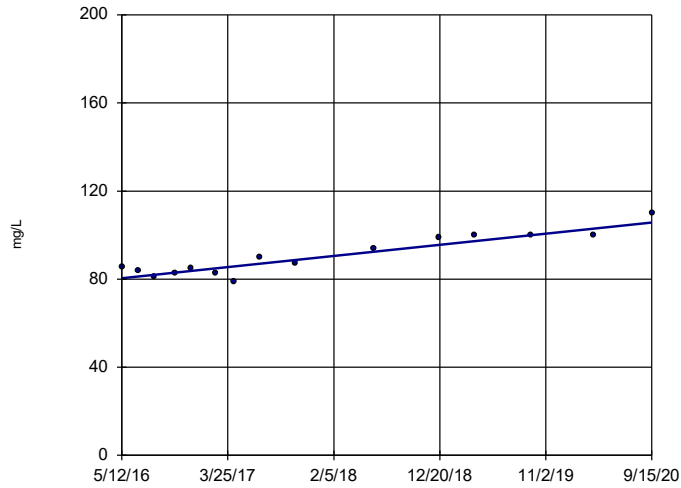
Sen's Slope Estimator  
SGWC-21



n = 15  
Slope = 7.065  
units per year.  
Mann-Kendall  
statistic = 65  
critical = 53  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

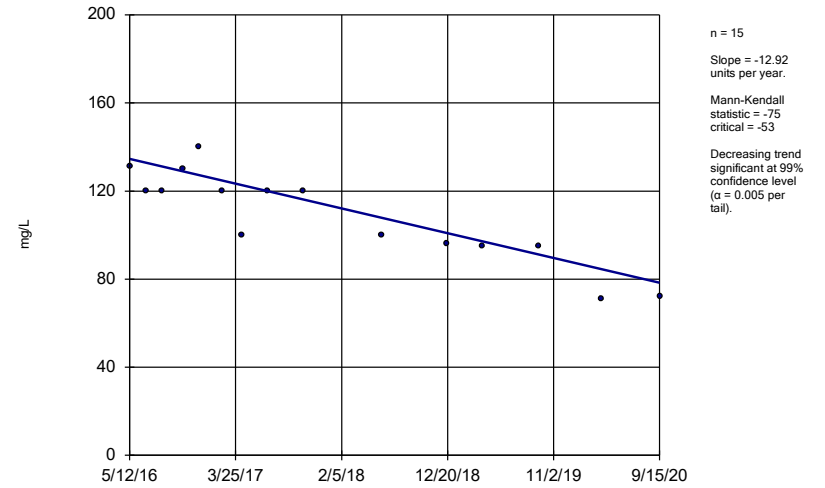
Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-22



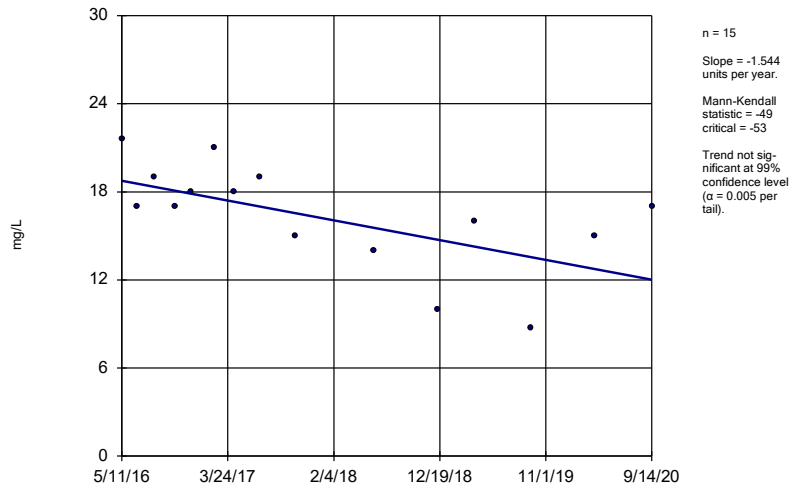
Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-23



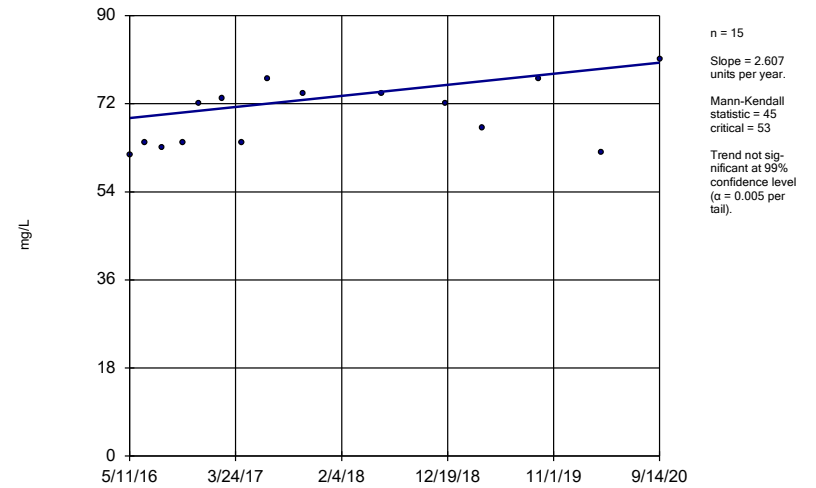
Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-7



Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

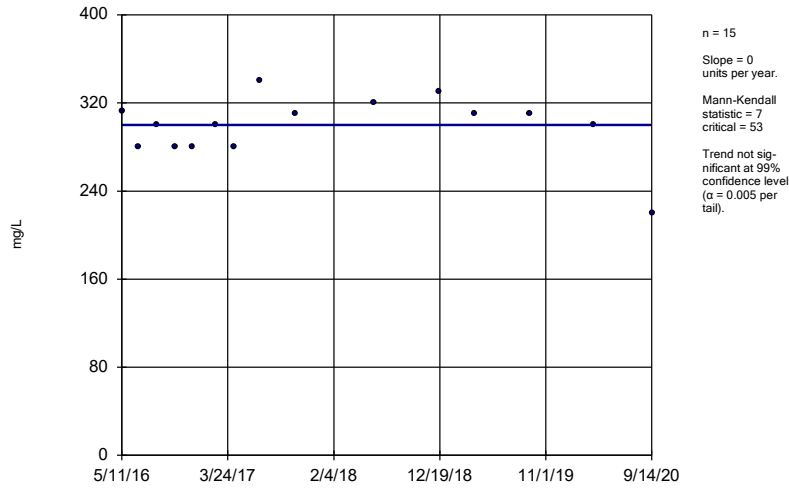
### Sen's Slope Estimator SGWC-8



Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

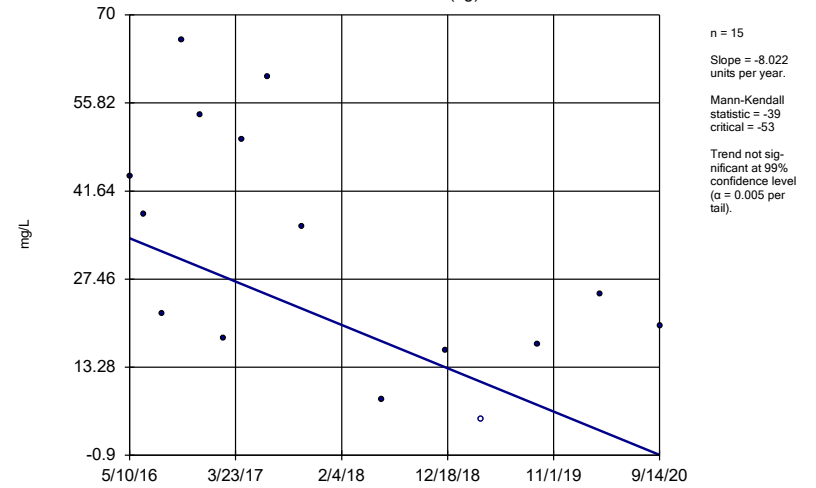


Sen's Slope Estimator  
SGWC-9



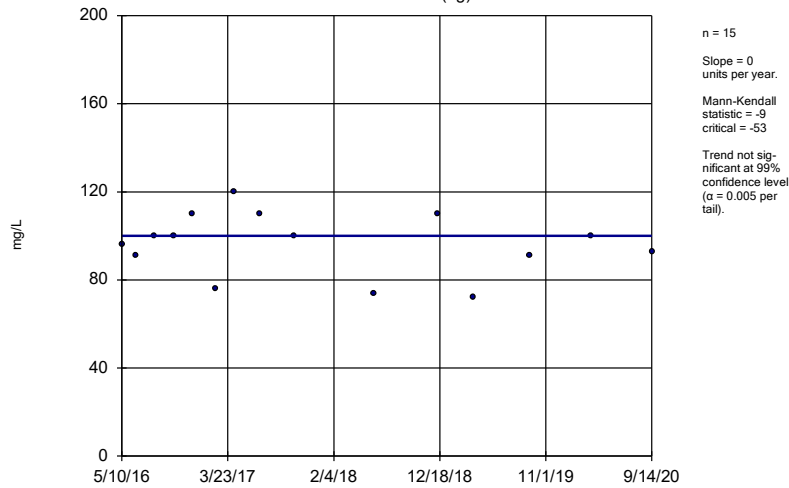
Constituent: Sulfate, total Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tests  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-1 (bg)



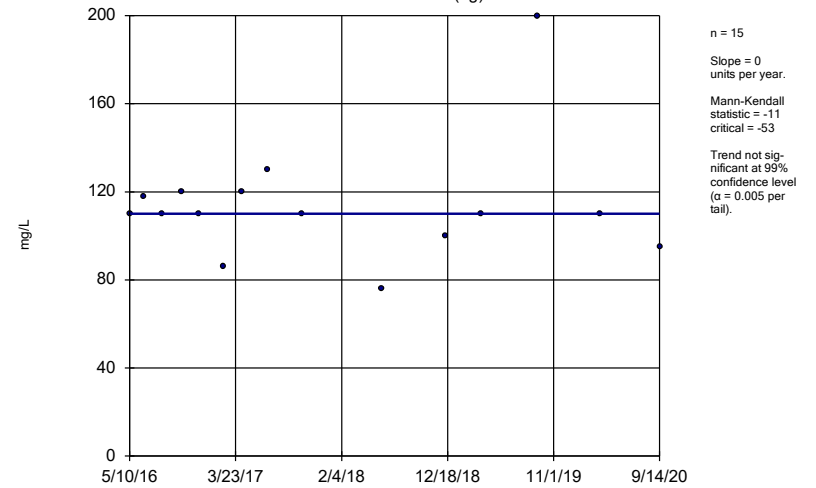
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-2 (bg)



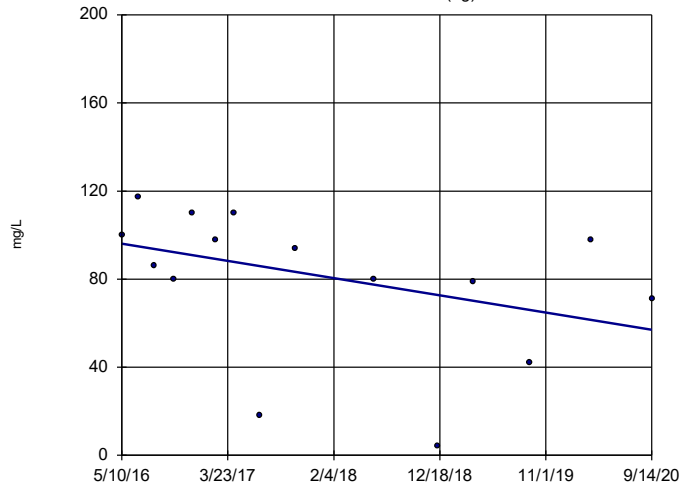
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWA-24 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

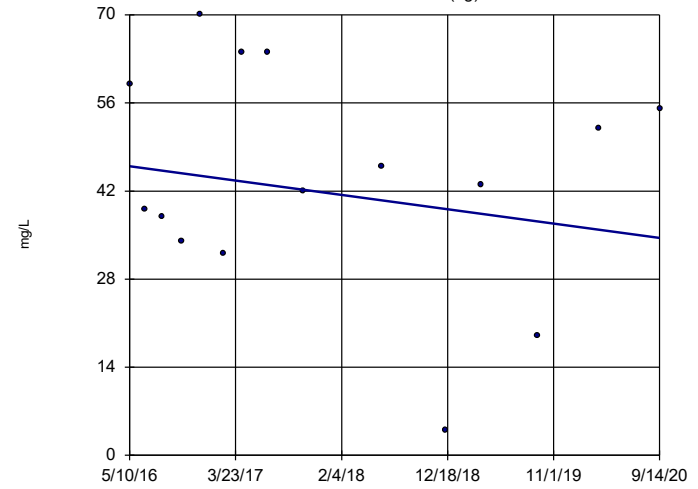
### Sen's Slope Estimator SGWA-25 (bg)



n = 15  
 Slope = -8.983  
 units per year.  
 Mann-Kendall  
 statistic = -44  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (alpha = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
 Plant Scherer Client: Southern Company Data: Scherer AP

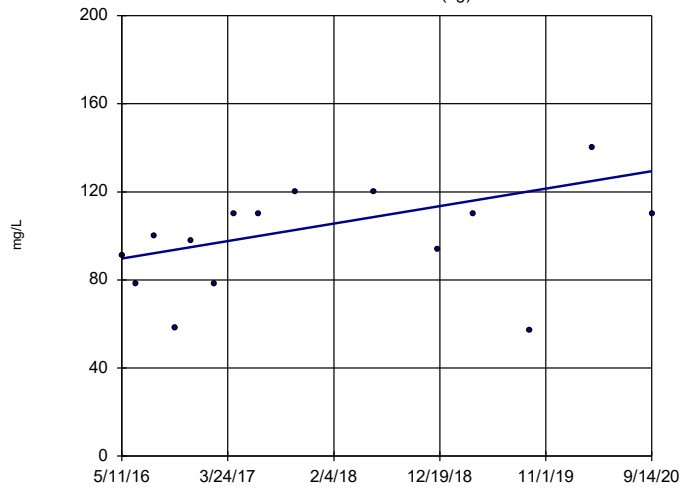
### Sen's Slope Estimator SGWA-3 (bg)



n = 15  
 Slope = -2.624  
 units per year.  
 Mann-Kendall  
 statistic = -6  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (alpha = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
 Plant Scherer Client: Southern Company Data: Scherer AP

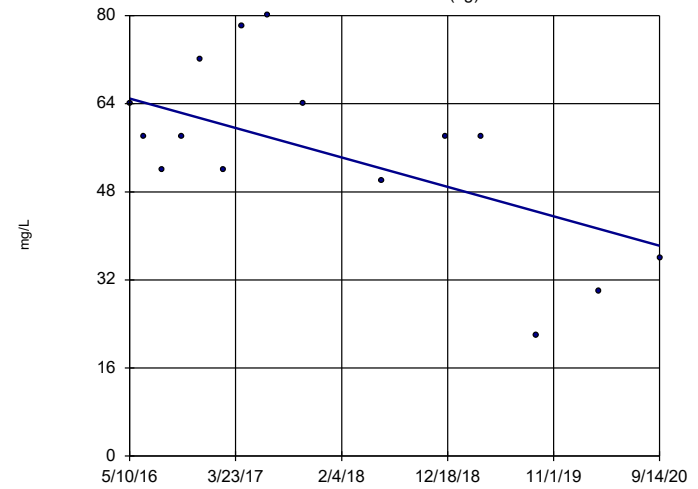
### Sen's Slope Estimator SGWA-4 (bg)



n = 15  
 Slope = 9.111  
 units per year.  
 Mann-Kendall  
 statistic = 35  
 critical = 53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (alpha = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
 Plant Scherer Client: Southern Company Data: Scherer AP

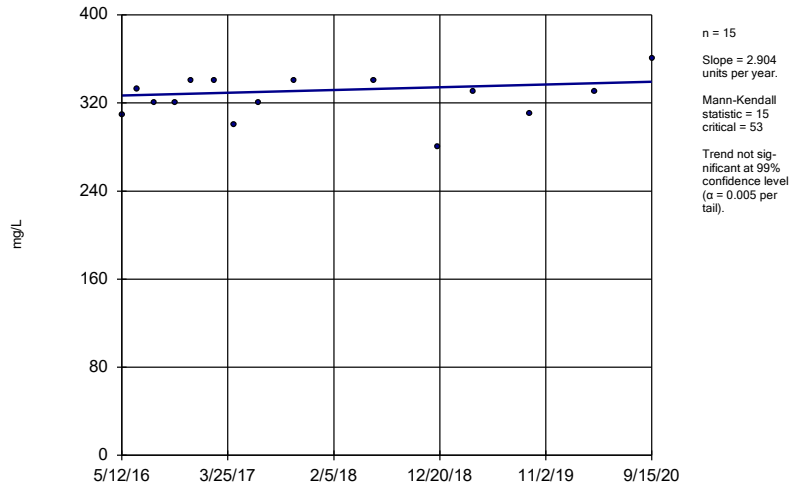
### Sen's Slope Estimator SGWA-5 (bg)



n = 15  
 Slope = -6.134  
 units per year.  
 Mann-Kendall  
 statistic = -35  
 critical = -53  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (alpha = 0.005 per  
 tail).

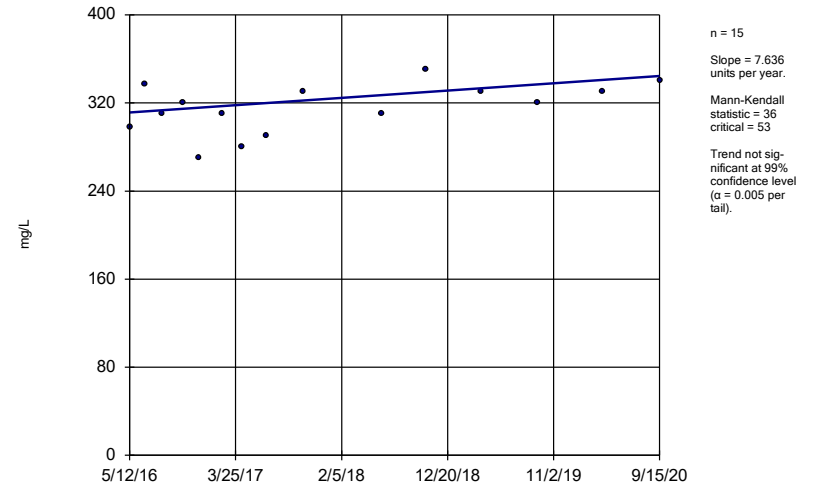
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-14



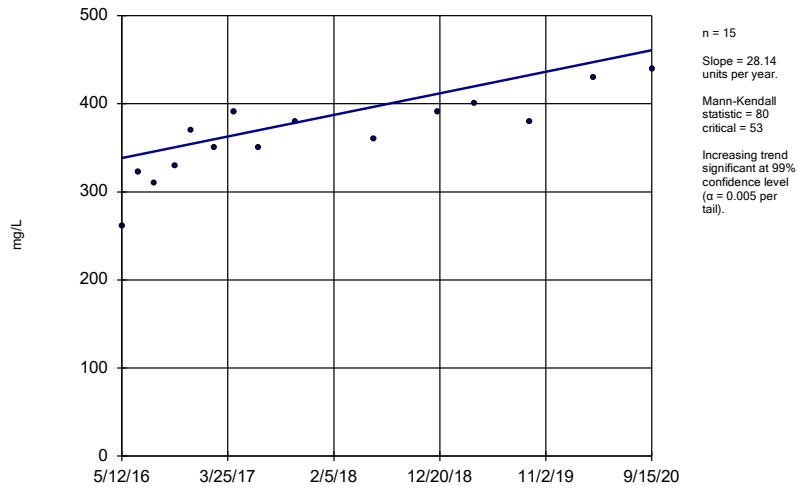
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-15



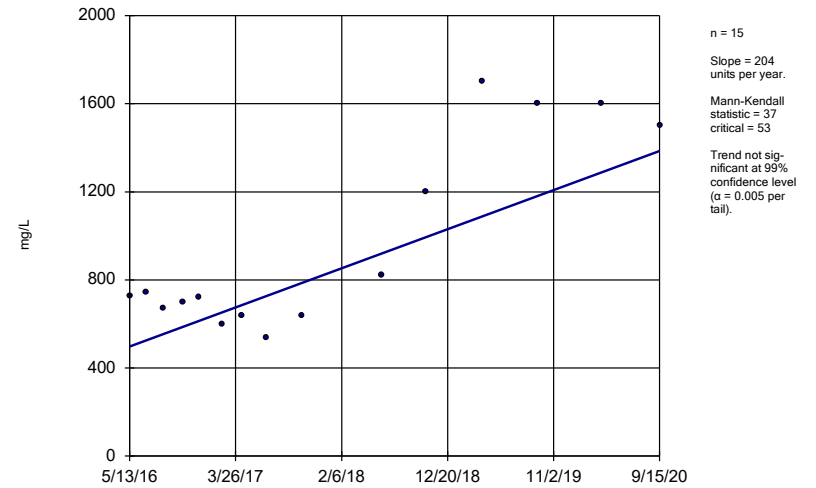
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-17



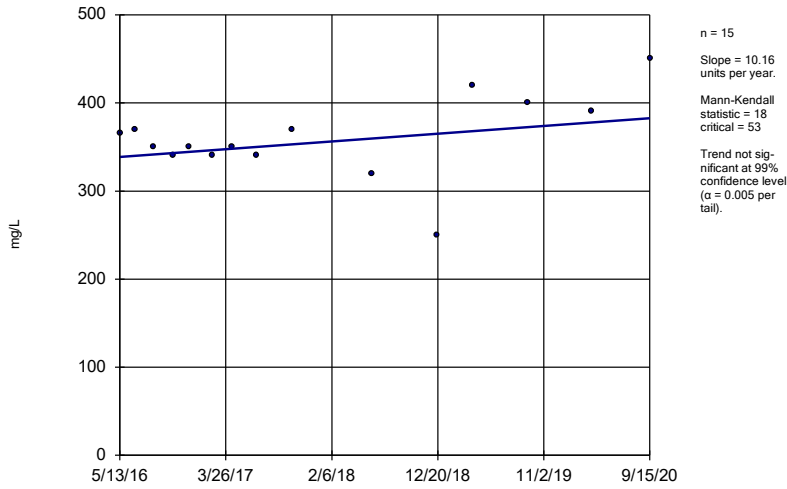
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-18



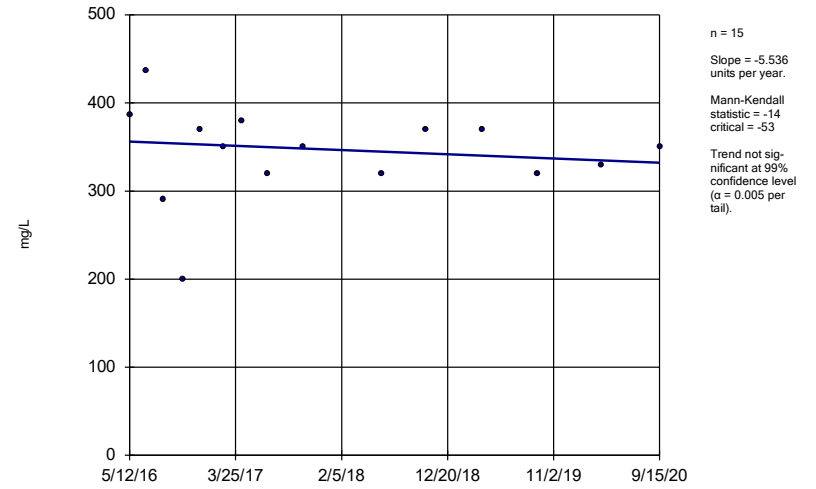
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-19



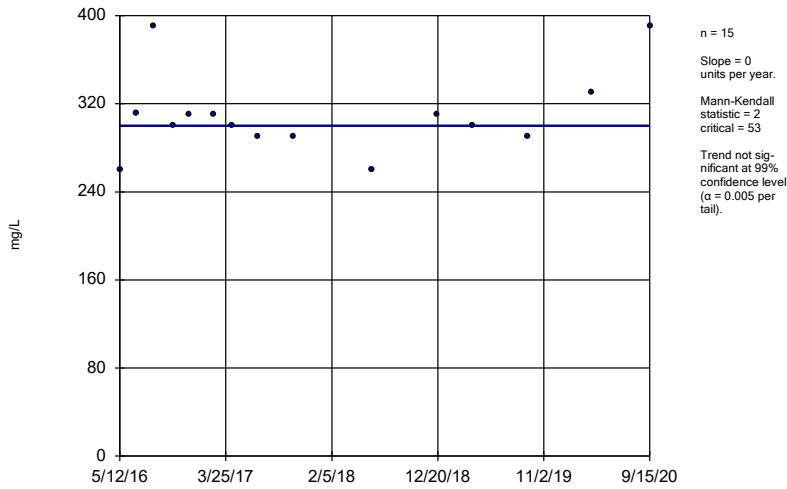
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-20



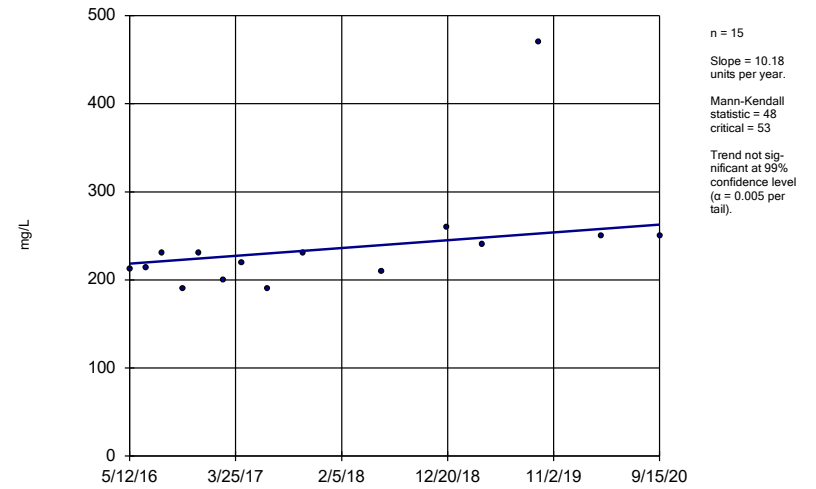
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-21



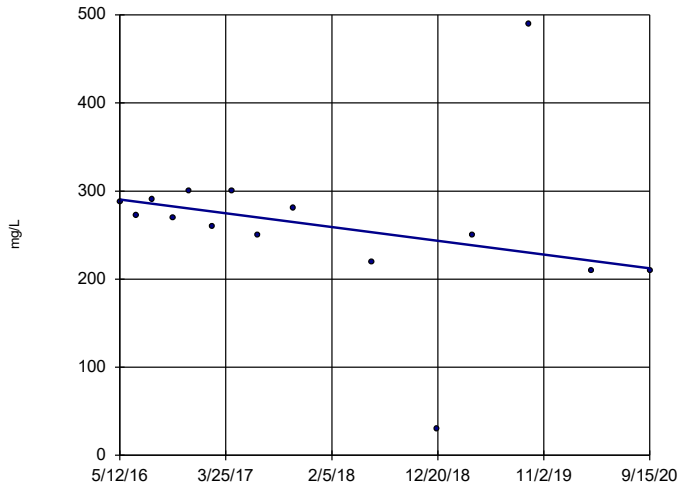
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

### Sen's Slope Estimator SGWC-22



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

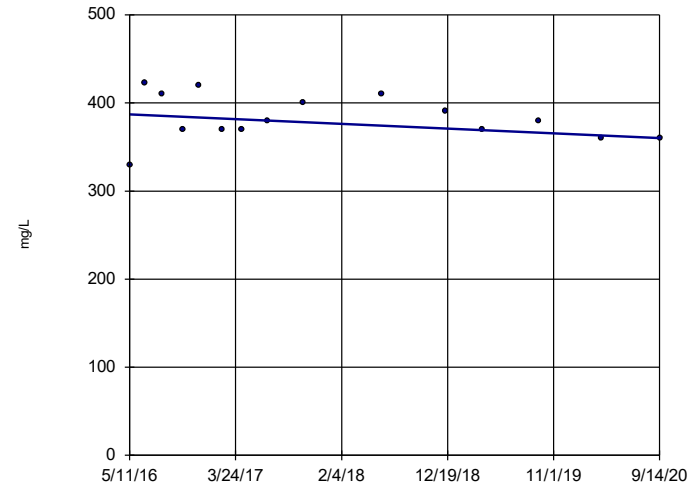
Sen's Slope Estimator  
SGWC-23



n = 15  
Slope = -17.94 units per year.  
Mann-Kendall statistic = -40  
critical = -53  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

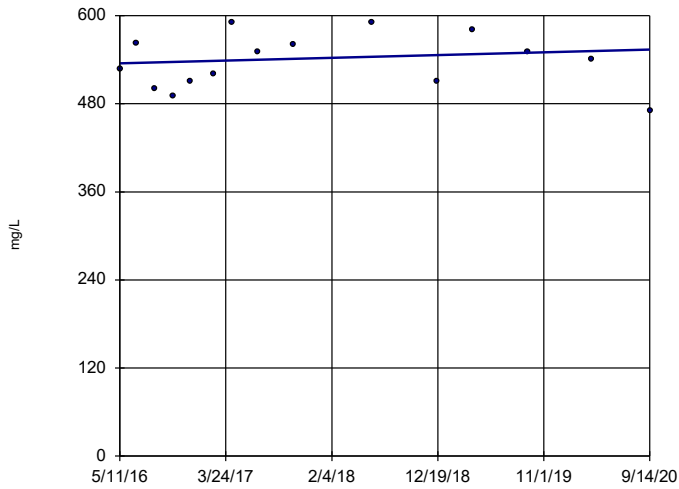
Sen's Slope Estimator  
SGWC-8



n = 15  
Slope = -6.213 units per year.  
Mann-Kendall statistic = -24  
critical = -53  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

Sen's Slope Estimator  
SGWC-9



n = 15  
Slope = 4.309 units per year.  
Mann-Kendall statistic = 6  
critical = 53  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/9/2020 3:49 PM View: Appendix III - Trend Tes  
Plant Scherer Client: Southern Company Data: Scherer AP

FIGURE F.

# Upper Tolerance Limit Summary Table

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:00 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0021	n/a	n/a	91	n/a	n/a	93.41	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.0015	n/a	n/a	119	n/a	n/a	83.19	n/a	n/a	0.002234	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	119	n/a	n/a	0	n/a	n/a	0.002234	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	119	n/a	n/a	94.96	n/a	n/a	0.002234	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	112	n/a	n/a	98.21	n/a	n/a	0.003199	NP Inter(NDs)
Chromium (mg/L)	0.021	n/a	n/a	126	n/a	n/a	33.33	n/a	n/a	0.00156	NP Inter(normality)
Cobalt (mg/L)	0.02	n/a	n/a	119	n/a	n/a	63.03	n/a	n/a	0.002234	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.2	n/a	n/a	119	n/a	n/a	0	n/a	n/a	0.002234	NP Inter(normality)
Fluoride, total (mg/L)	0.108	n/a	n/a	126	n/a	n/a	68.25	n/a	n/a	0.00156	NP Inter(NDs)
Lead (mg/L)	0.001	n/a	n/a	119	n/a	n/a	94.12	n/a	n/a	0.002234	NP Inter(NDs)
Lithium (mg/L)	0.005	n/a	n/a	119	n/a	n/a	91.6	n/a	n/a	0.002234	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	n/a	121	n/a	n/a	89.26	n/a	n/a	0.002016	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	112	n/a	n/a	89.29	n/a	n/a	0.003199	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	119	n/a	n/a	89.08	n/a	n/a	0.002234	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	119	n/a	n/a	92.44	n/a	n/a	0.002234	NP Inter(NDs)

FIGURE G.



<b>SCHERER ASH POND GWPS</b>					
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>Federal GWPS</b>	<b>State GWPS</b>
Antimony, Total (mg/L)	0.006		0.0021	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.0015	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.021	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.02	0.02	0.02
Combined Radium, Total (pCi/L)	5		1.2	5	5
Fluoride, Total (mg/L)	4		0.11	4	4
Lead, Total (mg/L)		0.015	0.001	0.015	0.001
Lithium, Total (mg/L)		0.04	0.005	0.04	0.005
Mercury, Total (mg/L)	0.002		0.0005	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.015	0.1	0.015
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

*Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

*\*GWPS = Groundwater Protection Standard*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residuals*

FIGURE H.

# Federal Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:30 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	SGWC-10	0.03255	0.02078	0.02	Yes 17	0.02666	0.009399	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-11	0.02972	0.0231	0.02	Yes 17	0.02641	0.005281	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-15	0.2784	0.2595	0.02	Yes 17	0.2689	0.01503	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-18	0.1638	0.1182	0.02	Yes 17	0.141	0.03639	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-20	0.227	0.1611	0.02	Yes 17	0.1941	0.05263	0	None	No	0.01	Param.

# Federal Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 1/6/2021, 12:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	17	0.0009312	0.0001591	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.0011	0.00076	0.01	No	17	0.001006	0.0001107	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-12	0.0011	0.0007	0.01	No	17	0.0008688	0.0002657	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	17	0.0009671	0.0001825	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	17	0.0009676	0.000199	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.001367	0.0008333	0.01	No	17	0.001216	0.0004967	23.53	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	17	0.0009465	0.0001511	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001045	0.00075	0.01	No	17	0.0009291	0.0001426	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.003149	0.001551	0.01	No	17	0.00235	0.001275	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	17	0.0009565	0.0001241	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.001	0.00051	0.01	No	17	0.0008994	0.0003394	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	17	0.0009859	0.00005821	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.00089	0.01	No	17	0.0008929	0.0002285	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	17	0.0009647	0.0001046	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	17	0.0009118	0.0001989	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.0006	0.01	No	17	0.0008965	0.0001798	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.00063	0.01	No	17	0.0008688	0.000223	64.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00074	0.01	No	17	0.0008794	0.0001931	52.94	None	No	0.01	NP (NDs)
Barium (mg/L)	SGWC-10	0.03276	0.02791	2	No	17	0.03034	0.003872	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.042	0.03709	2	No	17	0.03955	0.003923	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.04939	0.03782	2	No	17	0.04303	0.009405	0	None	x^2	0.01	Param.
Barium (mg/L)	SGWC-13	0.03421	0.02609	2	No	17	0.03015	0.006482	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.06077	0.05285	2	No	17	0.05681	0.006317	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.03962	0.03362	2	No	17	0.03662	0.004788	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.02475	0.01859	2	No	17	0.02199	0.005097	0	None	ln(x)	0.01	Param.
Barium (mg/L)	SGWC-17	0.0221	0.01846	2	No	17	0.02028	0.002908	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.02514	0.01558	2	No	17	0.0209	0.007937	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	SGWC-19	0.04215	0.03481	2	No	17	0.03848	0.005855	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03578	0.02648	2	No	17	0.03113	0.007424	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.1	0.09	2	No	17	0.09592	0.0105	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-22	0.09304	0.08262	2	No	17	0.08783	0.008309	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.093	0.065	2	No	17	0.07956	0.01209	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-6	0.1033	0.05764	2	No	17	0.08049	0.03646	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.3055	0.2578	2	No	17	0.2816	0.038	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.2	0.17	2	No	17	0.1839	0.02137	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-9	0.06912	0.05617	2	No	17	0.06264	0.01033	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	17	0.002368	0.0005433	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	17	0.002249	0.0007114	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00059	0.00035	0.004	No	17	0.0007806	0.0008233	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-18	0.0025	0.00033	0.004	No	17	0.001489	0.001106	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	17	0.002091	0.0009117	82.35	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0008127	0.0006499	0.004	No	17	0.0007313	0.0001299	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-22	0.0025	0.00033	0.004	No	17	0.002372	0.0005263	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	17	0.002365	0.0005578	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	17	0.002235	0.0007492	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	16	0.002232	0.0007376	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.00032	0.005	No	16	0.00142	0.001117	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	SGWC-18	0.0025	0.0002	0.005	No	16	0.001787	0.001093	68.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	16	0.002366	0.000535	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	16	0.0022	0.0008184	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	16	0.002368	0.0005275	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	16	0.002357	0.00057	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	16	0.002363	0.0005475	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	17	0.002018	0.00007276	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	17	0.001982	0.00007276	94.12	None	No	0.01	NP (NDs)

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	SGWC-14	0.0026	0.0016	0.1	No	17	0.001841	0.0004199	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03523	0.03235	0.1	No	17	0.03379	0.002298	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01166	0.009383	0.1	No	17	0.01052	0.001814	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-17	0.006618	0.003941	0.1	No	17	0.005279	0.002136	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.009419	0.007171	0.1	No	17	0.008295	0.001794	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01602	0.01436	0.1	No	17	0.01519	0.001328	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	17	0.001947	0.0002741	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.002	0.1	No	17	0.0019	0.0002345	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0024	0.0015	0.1	No	17	0.001853	0.0004515	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0024	0.0014	0.1	No	17	0.001841	0.0003922	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0013	0.1	No	17	0.001835	0.0004743	52.94	None	No	0.01	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>SGWC-10</b>	<b>0.03255</b>	<b>0.02078</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.02666</b>	<b>0.009399</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>SGWC-11</b>	<b>0.02972</b>	<b>0.0231</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.02641</b>	<b>0.005281</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-12	0.004255	0.002802	0.02	No	17	0.003528	0.00116	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.008342	0.003611	0.02	No	17	0.005976	0.003776	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01226	0.00716	0.02	No	17	0.009709	0.004067	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>SGWC-15</b>	<b>0.2784</b>	<b>0.2595</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.2689</b>	<b>0.01503</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-16	0.004097	0.003341	0.02	No	17	0.003719	0.0006032	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.0025	0.00041	0.02	No	17	0.0009974	0.0008711	23.53	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-18</b>	<b>0.1638</b>	<b>0.1182</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.141</b>	<b>0.03639</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-19	0.0025	0.00016	0.02	No	17	0.001414	0.001079	47.06	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-20</b>	<b>0.227</b>	<b>0.1611</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.1941</b>	<b>0.05263</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-21	0.0025	0.00016	0.02	No	17	0.001807	0.001107	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003629	0.002033	0.02	No	17	0.002911	0.001381	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	17	0.002361	0.0005748	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.002475	0.0009441	0.02	No	17	0.002042	0.001186	29.41	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	SGWC-7	0.01166	0.005708	0.02	No	17	0.008682	0.004747	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.00265	0.00049	0.02	No	17	0.001908	0.0009914	64.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01358	0.007048	0.02	No	17	0.01032	0.005216	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.47	0.0222	5	No	17	0.3113	0.3776	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.5371	0.1597	5	No	17	0.3484	0.3012	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4754	0.1658	5	No	17	0.3206	0.247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4626	0.1318	5	No	17	0.2972	0.264	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.3975	0.0762	5	No	17	0.2368	0.2563	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.4846	0.2242	5	No	17	0.3544	0.2078	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.3809	0.1012	5	No	17	0.241	0.2232	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.4382	0.1649	5	No	17	0.3015	0.2181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.449	0.139	5	No	17	0.391	0.3843	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.396	0.0462	5	No	17	0.281	0.3745	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.639	0.315	5	No	17	0.477	0.2586	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.514	0.143	5	No	17	0.3878	0.3782	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.5491	0.1378	5	No	17	0.3912	0.445	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6918	0.3916	5	No	17	0.5417	0.2395	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.4094	0.1216	5	No	17	0.2655	0.2297	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.4989	0.2727	5	No	17	0.3858	0.1805	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.558	2.027	5	No	17	2.292	0.424	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.4168	0.1295	5	No	17	0.2731	0.2293	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-10	0.1	0.031	4	No	18	0.09167	0.02434	88.89	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	18	0.09283	0.01836	83.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.1046	0.06295	4	No	18	0.09289	0.03318	22.22	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.15	0.045	4	No	18	0.08911	0.03037	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.031	4	No	18	0.07756	0.03284	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	18	0.1422	0.05962	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.09	4	No	18	0.08694	0.02895	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.1	0.047	4	No	18	0.08372	0.03306	50	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
Fluoride, total (mg/L)	SGWC-18	0.18	0.091	4	No	18	0.09385	0.0316	72.22	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.18	0.057	4	No	18	0.0972	0.03043	83.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2694	0.184	4	No	18	0.2299	0.07583	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09738	0.06776	4	No	18	0.09278	0.02317	38.89	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.1	4	No	18	0.08872	0.02605	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-23	0.1	0.044	4	No	18	0.07867	0.02664	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-6	0.14	0.089	4	No	18	0.1168	0.03718	16.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-7	0.2229	0.1733	4	No	18	0.1981	0.04099	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.4693	0.3564	4	No	18	0.4129	0.09329	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.1	0.061	4	No	18	0.08622	0.02426	50	None	No	0.01	NP (normality)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.015	No	17	0.0008982	0.0002873	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.015	No	17	0.0009641	0.0001479	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.015	No	17	0.0009306	0.000215	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.015	No	17	0.0009547	0.0001868	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.015	No	17	0.0009488	0.000211	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00025	0.015	No	17	0.0006724	0.0003653	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-21	0.001	0.00022	0.015	No	17	0.0009006	0.0002816	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00019	0.015	No	17	0.0009041	0.0002707	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.015	No	17	0.0009465	0.0002207	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.015	No	17	0.0009529	0.000194	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.015	No	17	0.0009912	0.0003638	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00029	0.015	No	17	0.0009582	0.0001722	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.04	No	17	0.004047	0.001407	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0011	0.04	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.04	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0011	0.04	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.003	0.04	No	17	0.0041	0.0009559	47.06	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.04	No	17	0.004794	0.0008489	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.04	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004745	0.003829	0.04	No	17	0.004676	0.0006713	29.41	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.04	No	17	0.004665	0.0009467	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004867	0.003896	0.04	No	16	0.004381	0.0007458	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0038	0.04	No	17	0.004394	0.001219	76.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.04	No	17	0.004529	0.001121	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.04	No	17	0.004212	0.0008838	41.18	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-7	0.005421	0.004167	0.04	No	16	0.004794	0.0009637	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.0021	0.04	No	17	0.004088	0.001468	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	17	0.0001959	0.00001698	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	17	0.0001937	0.00002595	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	17	0.0001829	0.00003852	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00011	0.002	No	17	0.0001533	0.00004641	41.18	None	No	0.01	NP (normality)
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	17	0.0001927	0.00003007	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00011	0.002	No	17	0.0001894	0.00002989	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.0001761	0.0001052	0.002	No	17	0.0001728	0.00004876	29.41	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.000082	0.002	No	17	0.0001856	0.00004071	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	17	0.0001941	0.0000245	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	17	0.0001865	0.00004754	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	17	0.0001927	0.00003007	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.1	No	16	0.01327	0.004731	87.5	None	No	0.01	NP (NDs)

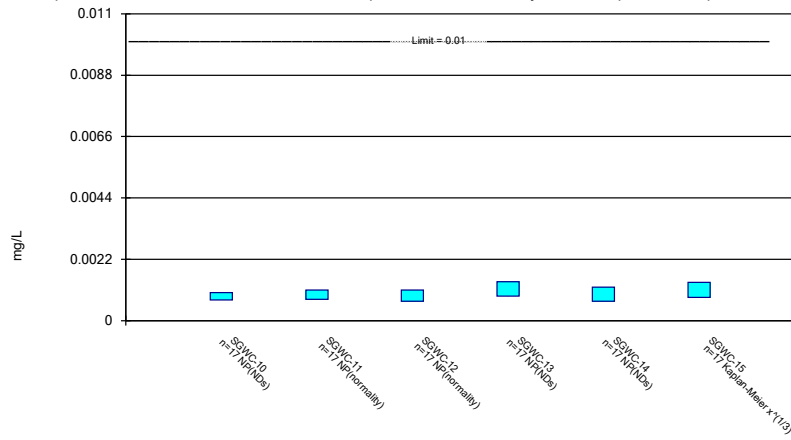
# Federal Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.1	No 16	0.01336	0.004491	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.1	No 16	0.01323	0.004835	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.015	0.0013	0.1	No 16	0.005233	0.005875	25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.1	No 16	0.01411	0.00355	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00075	0.1	No 16	0.008034	0.007202	50	None	No	0.01	NP (normality)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No 17	0.004733	0.001101	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No 17	0.004724	0.001137	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No 17	0.004467	0.001506	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No 17	0.0045	0.001412	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.003064	0.0008773	0.05	No 17	0.003947	0.002846	41.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-16	0.005	0.0013	0.05	No 17	0.003678	0.001867	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No 17	0.004186	0.001814	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.01298	0.00446	0.05	No 17	0.009859	0.008406	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00096	0.05	No 17	0.004241	0.001693	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.0053	0.0011	0.05	No 17	0.003726	0.00196	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00033	0.05	No 17	0.004165	0.00186	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No 17	0.00419	0.001804	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No 17	0.004726	0.00113	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No 17	0.0009324	0.0002229	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No 17	0.0009506	0.0002037	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No 17	0.0009159	0.0002383	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No 17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00035	0.002	No 17	0.0009194	0.0002493	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.000095	0.002	No 17	0.0004619	0.0004207	35.29	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-18	0.00027	0.00012	0.002	No 17	0.0002515	0.0002329	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00028	0.00014	0.002	No 17	0.00023	0.0002066	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-22	0.001	0.00038	0.002	No 17	0.0009635	0.0001504	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-23	0.001	0.00016	0.002	No 17	0.0009506	0.0002037	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No 17	0.0009276	0.0002076	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00022	0.002	No 17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No 17	0.0008953	0.0002611	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.00027	0.002	No 17	0.0009571	0.0001771	94.12	None	No	0.01	NP (NDs)

### Parametric and Non-Parametric (NP) Confidence Interval

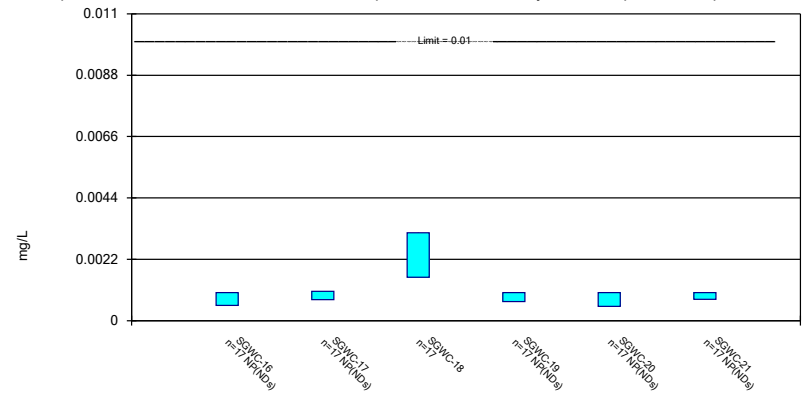
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/6/2021 12:28 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

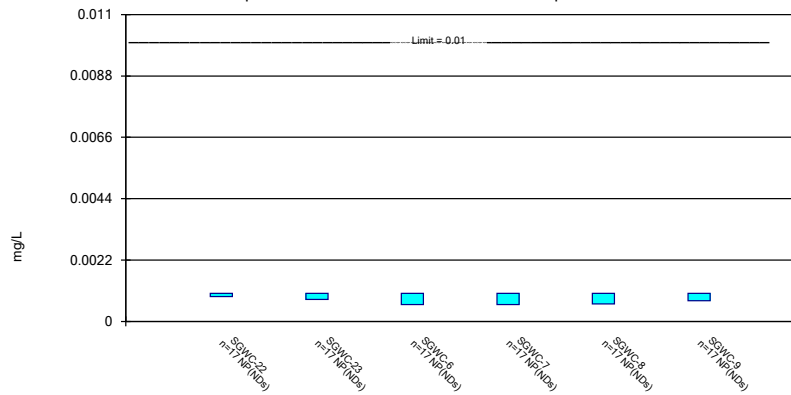
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Constituent: Arsenic Analysis Run 1/6/2021 12:28 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

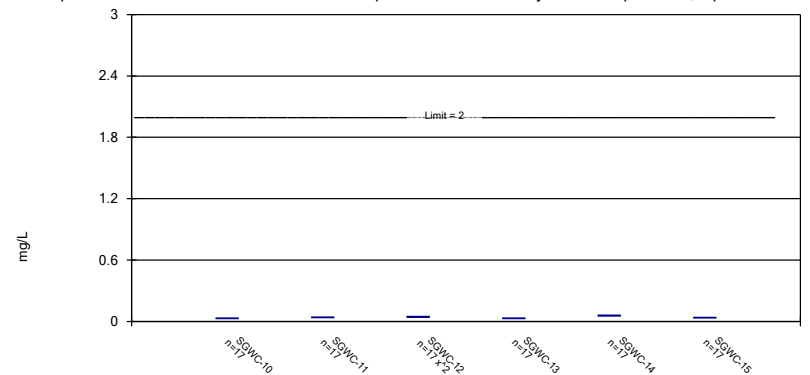
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Constituent: Arsenic Analysis Run 1/6/2021 12:28 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric Confidence Interval

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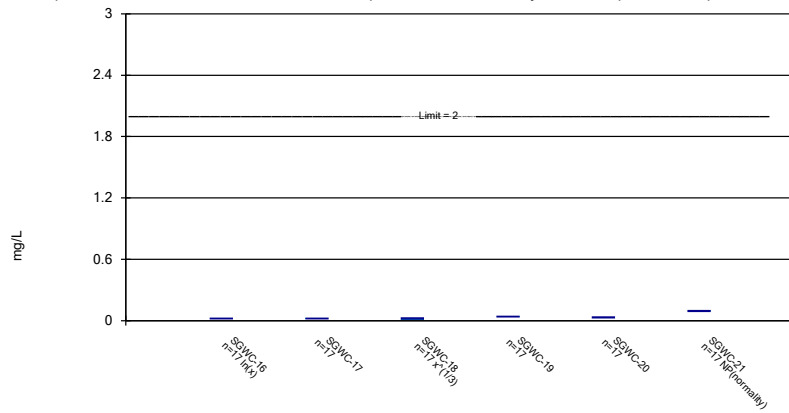


Constituent: Barium Analysis Run 1/6/2021 12:28 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP



### Parametric and Non-Parametric (NP) Confidence Interval

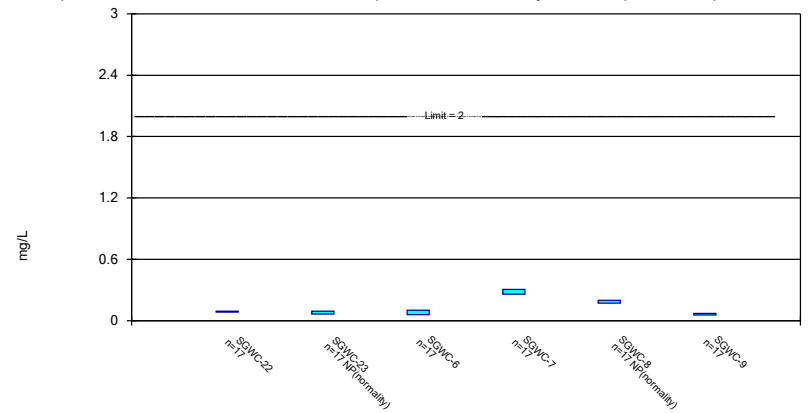
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Constituent: Barium Analysis Run 1/6/2021 12:28 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

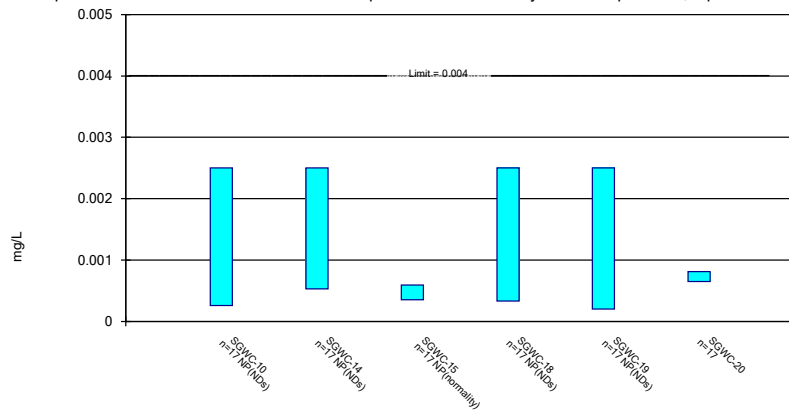
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Constituent: Barium Analysis Run 1/6/2021 12:28 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

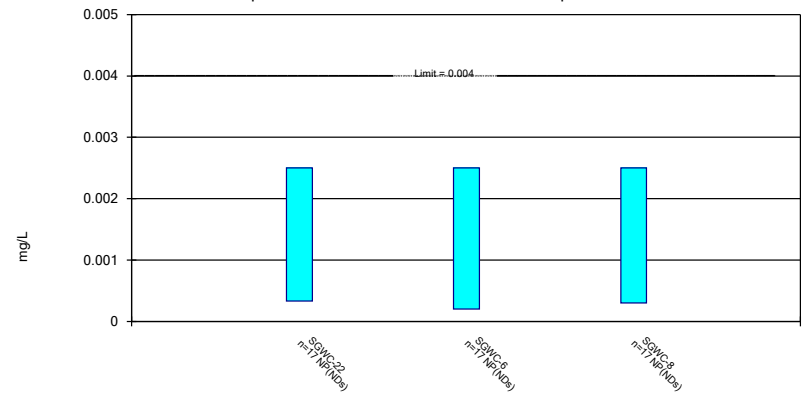
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Constituent: Beryllium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

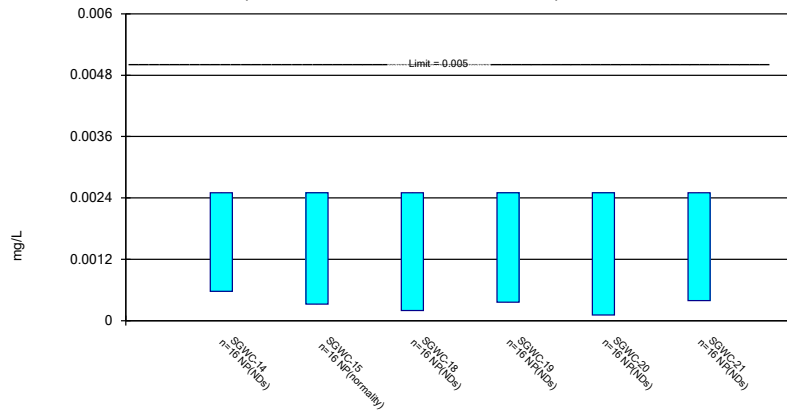
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Constituent: Beryllium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

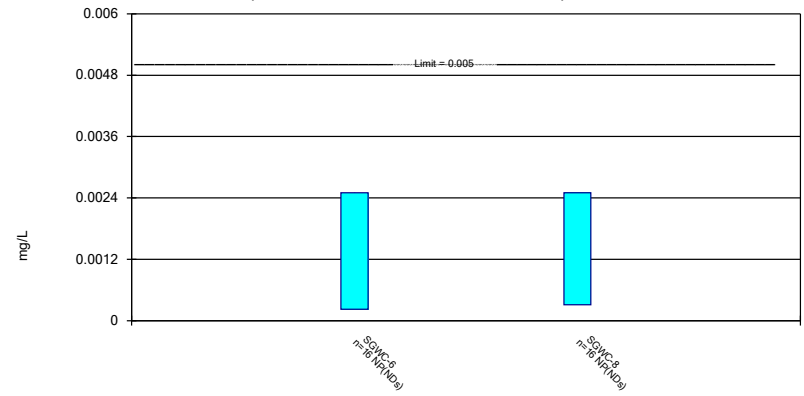
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Constituent: Cadmium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

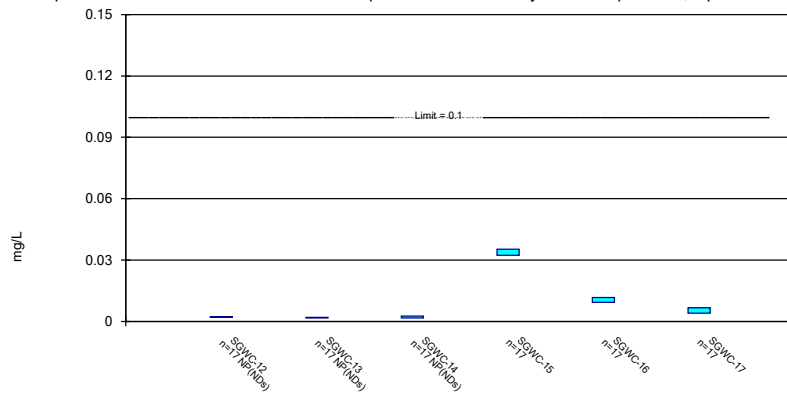
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Constituent: Cadmium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

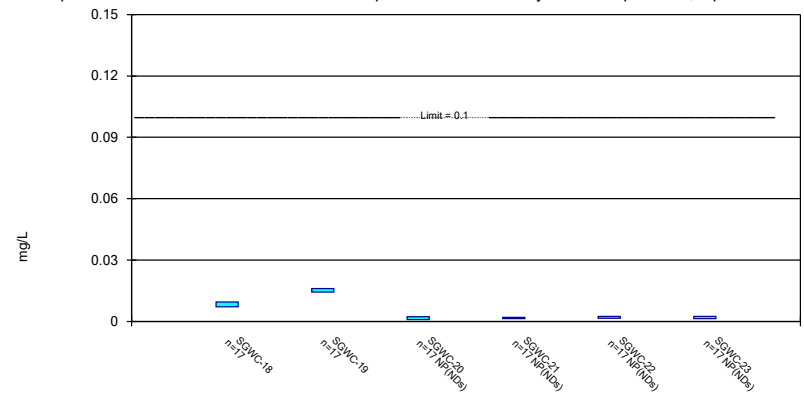
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Constituent: Chromium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

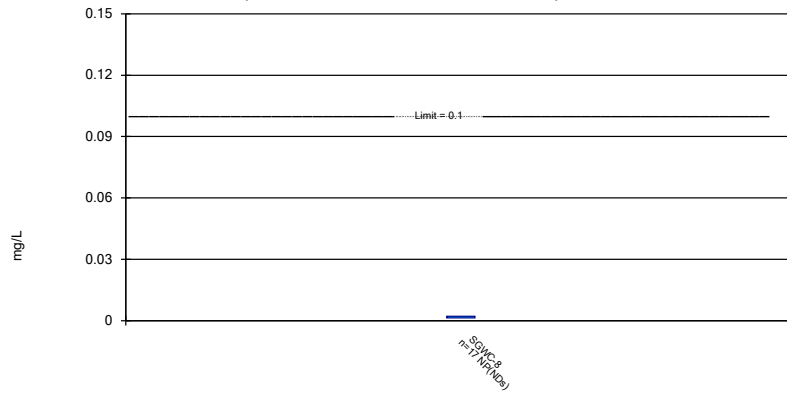
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Constituent: Chromium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

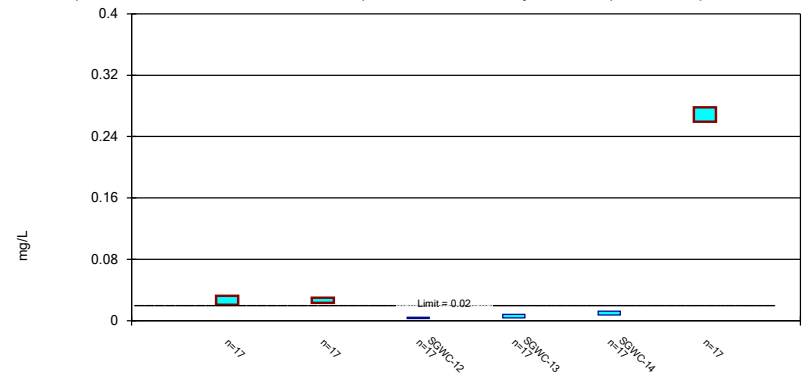
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Constituent: Chromium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric Confidence Interval

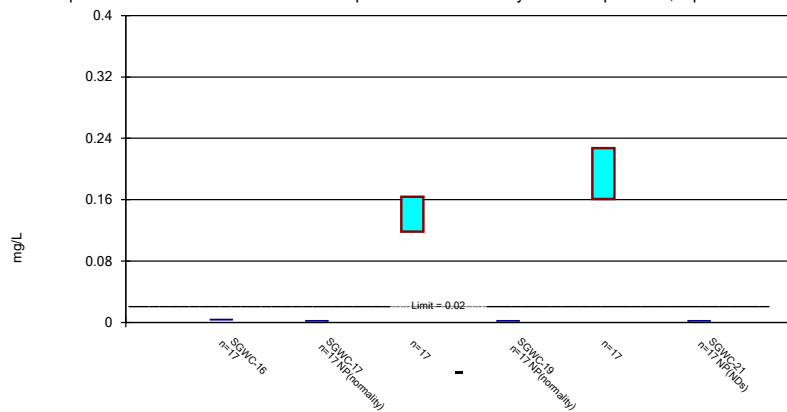
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Constituent: Cobalt Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

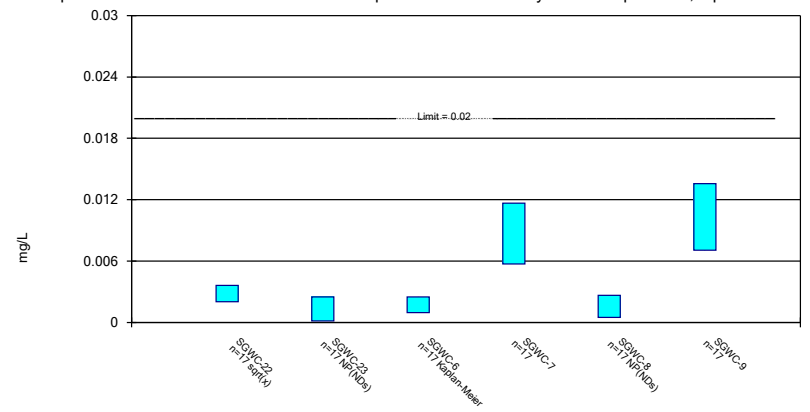
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Constituent: Cobalt Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

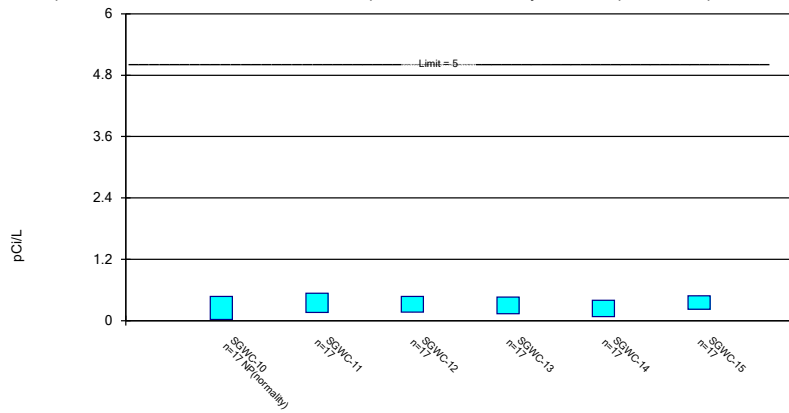
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Constituent: Cobalt Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

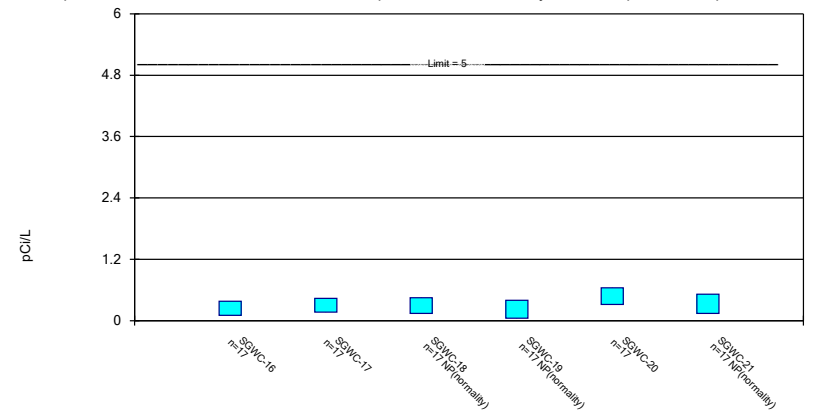
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Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

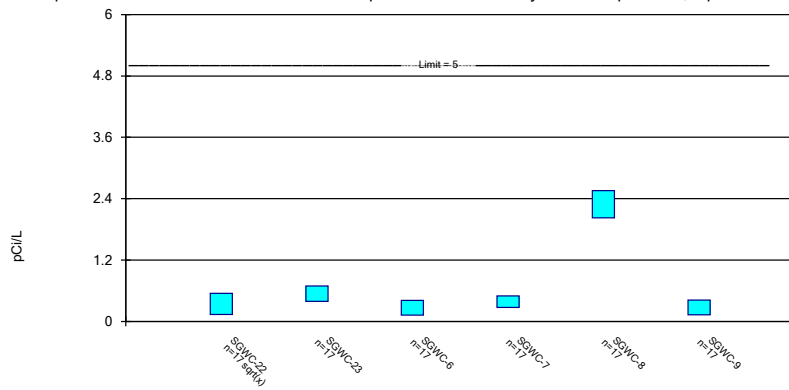
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Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric Confidence Interval

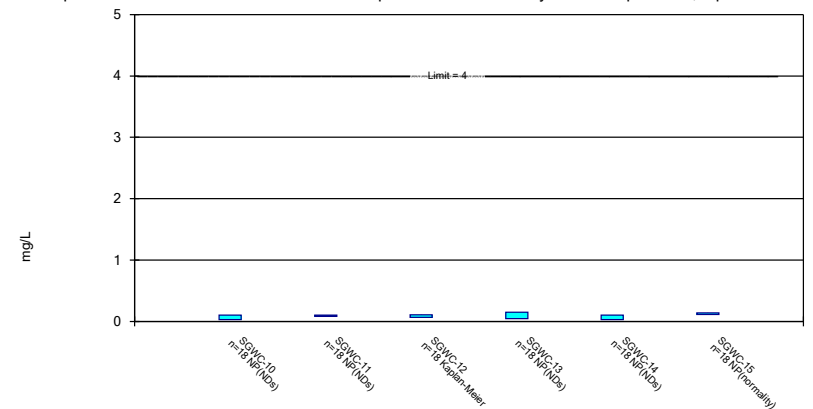
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Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

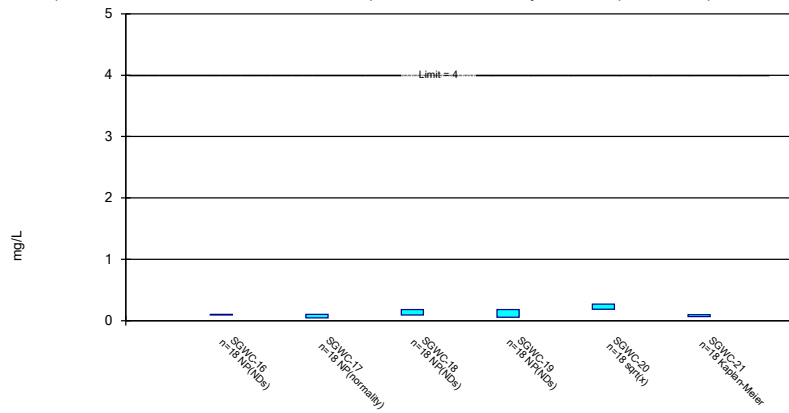
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

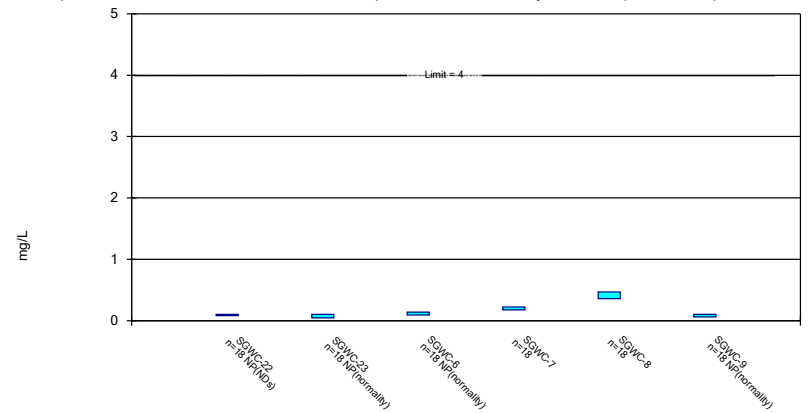
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

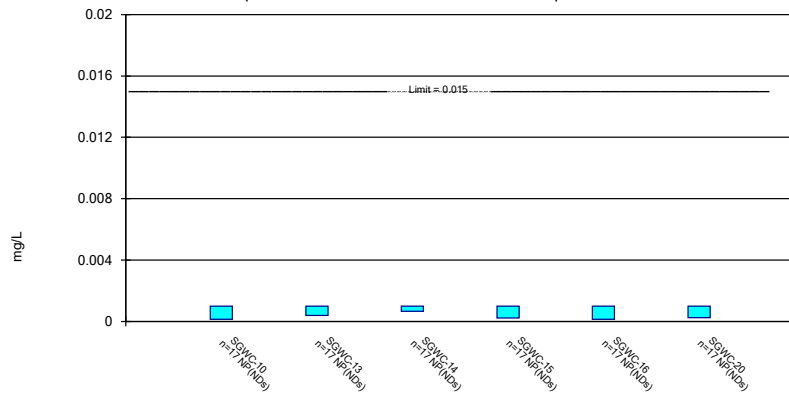
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

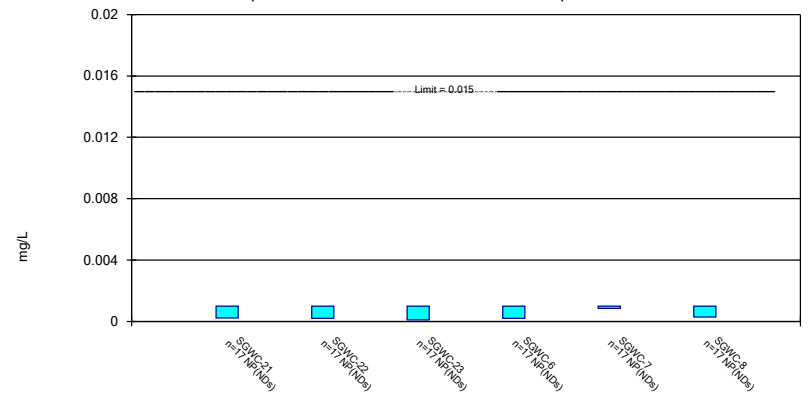
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

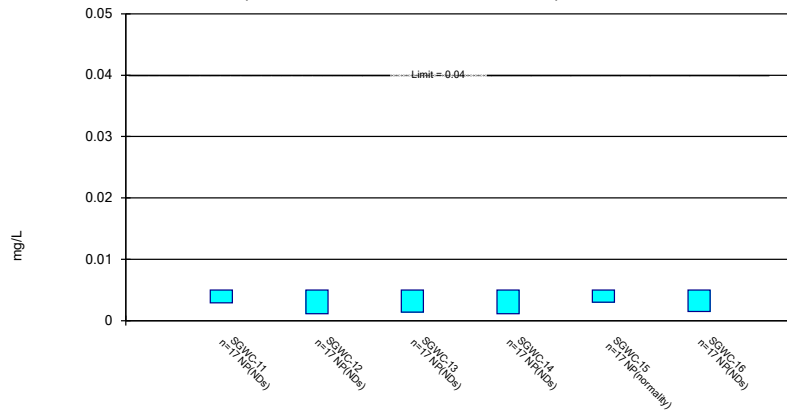
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

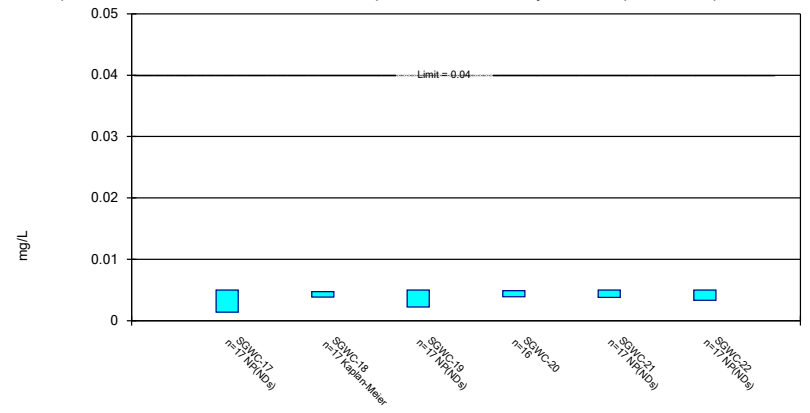
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

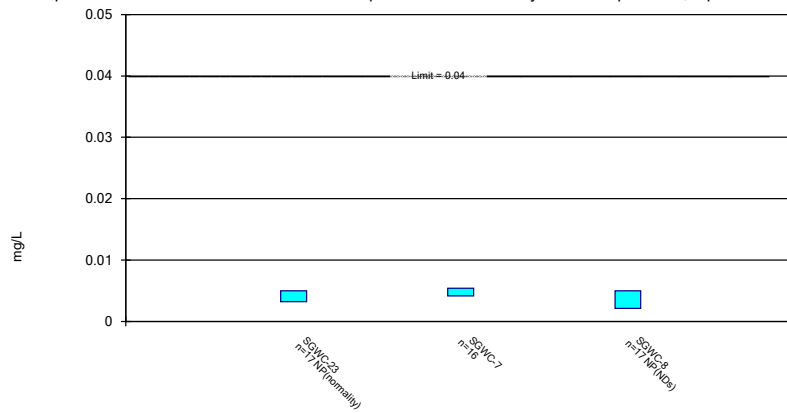
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

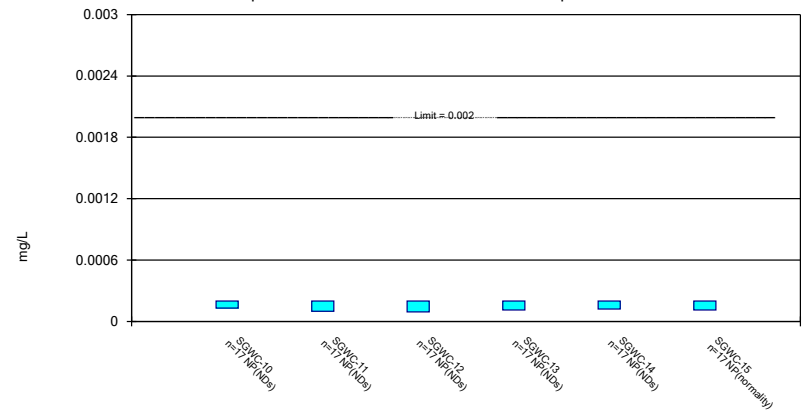
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

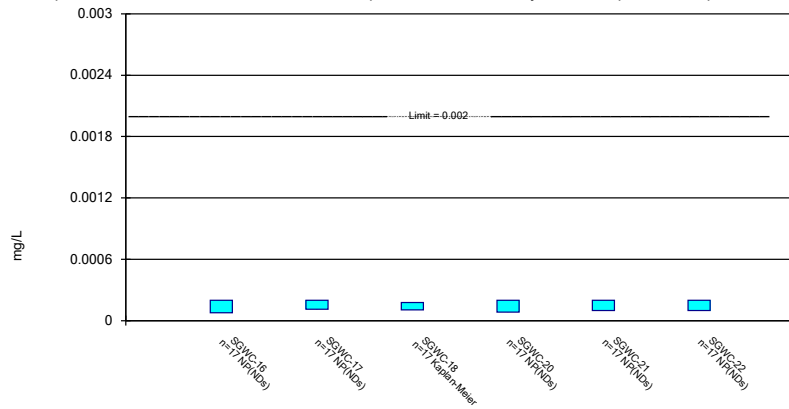
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

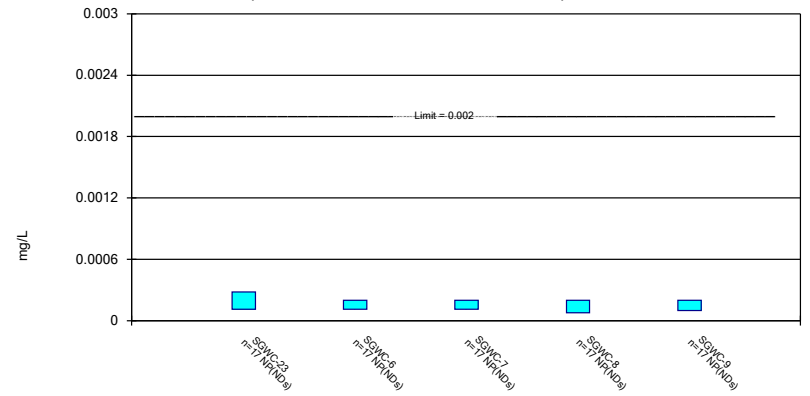
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

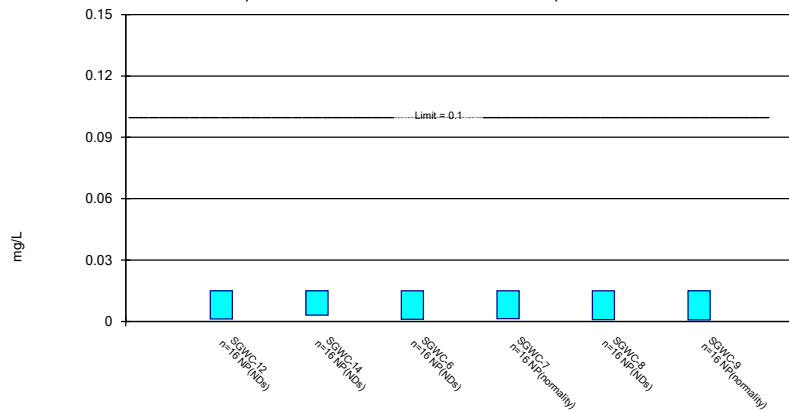
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

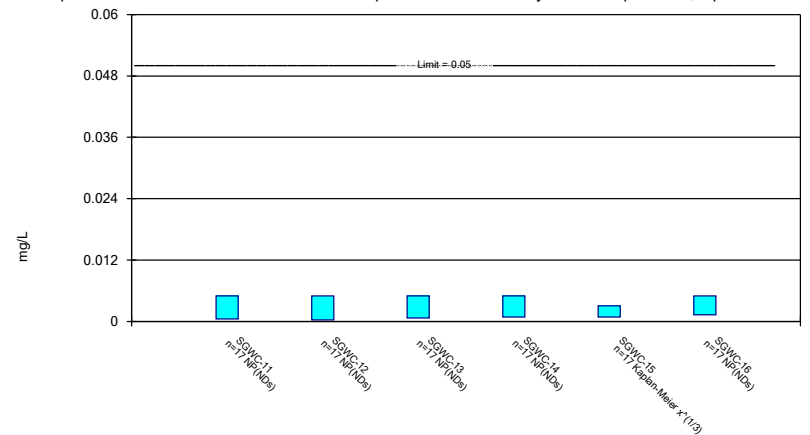
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

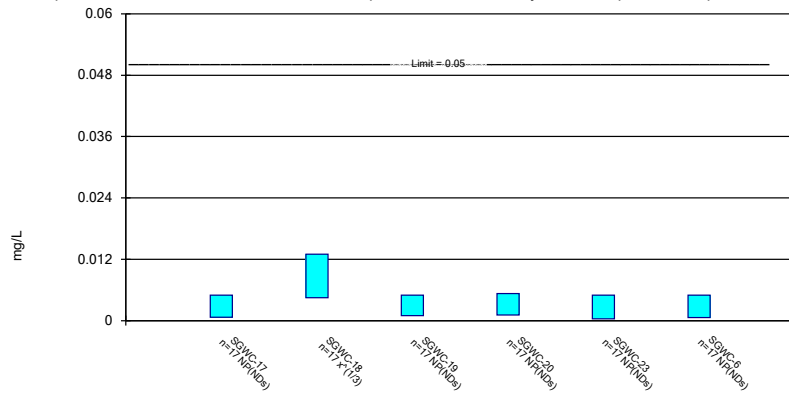
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

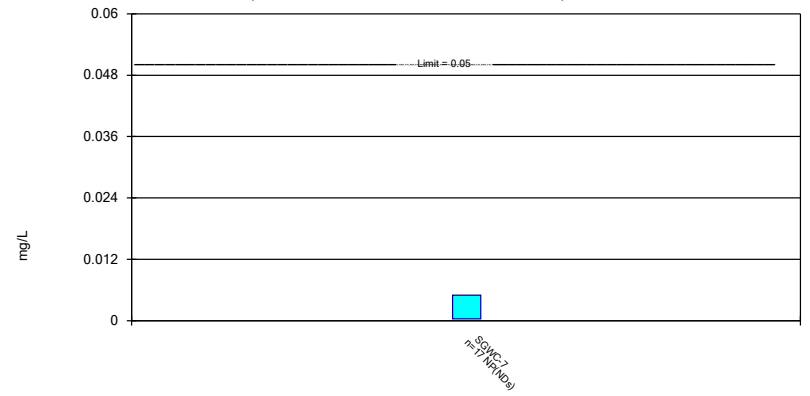
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

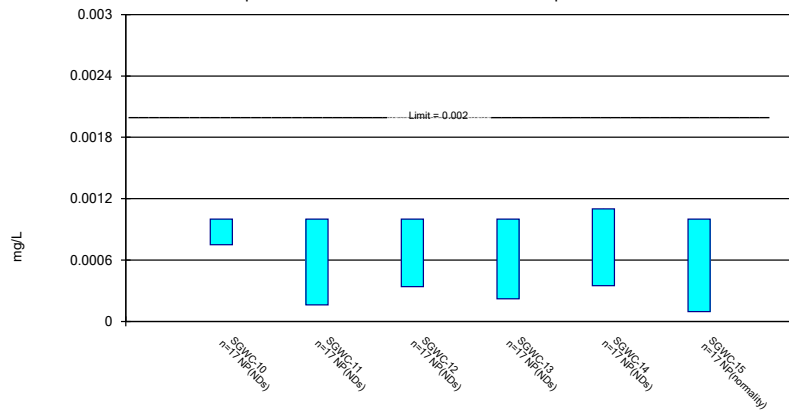
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

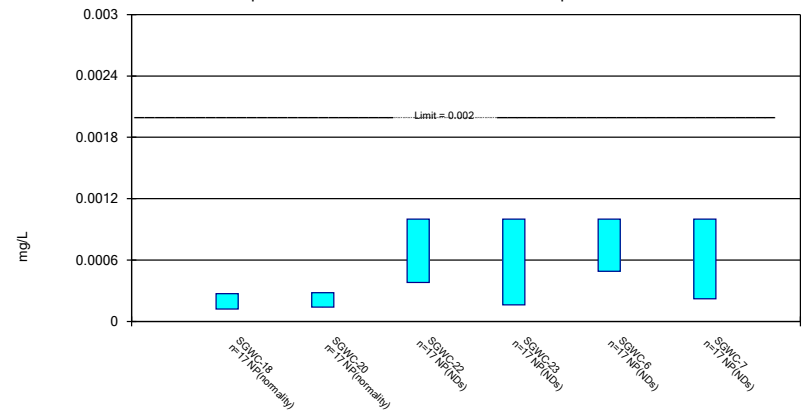
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

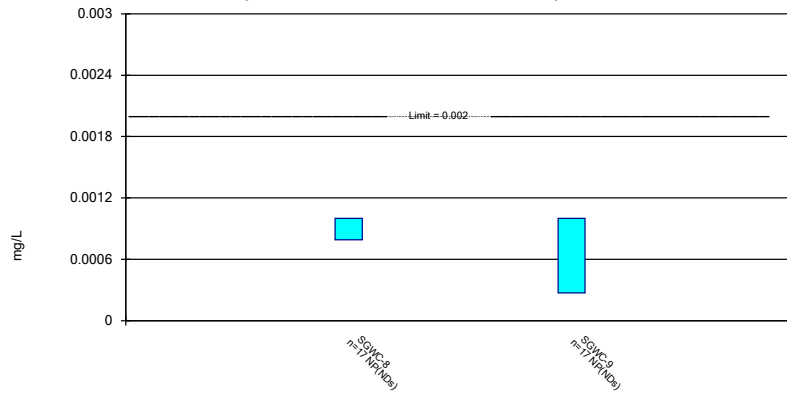


Constituent: Thallium Analysis Run 1/6/2021 12:29 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP



### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium    Analysis Run 1/6/2021 12:29 PM    View: Appendix IV  
Plant Scherer    Client: Southern Company    Data: Scherer AP

FIGURE I.

# State Confidence Intervals - Significant Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:26 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	SGWC-10	0.03255	0.02078	0.02	Yes 17	0.02666	0.009399	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-11	0.02972	0.0231	0.02	Yes 17	0.02641	0.005281	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-15	0.2784	0.2595	0.02	Yes 17	0.2689	0.01503	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-18	0.1638	0.1182	0.02	Yes 17	0.141	0.03639	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-20	0.227	0.1611	0.02	Yes 17	0.1941	0.05263	0	None	No	0.01	Param.

# State Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 1/6/2021, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	SGWC-10	0.001	0.00074	0.01	No	17	0.0009312	0.0001591	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-11	0.0011	0.00076	0.01	No	17	0.001006	0.0001107	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-12	0.0011	0.0007	0.01	No	17	0.0008688	0.0002657	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	SGWC-13	0.0014	0.00088	0.01	No	17	0.0009671	0.0001825	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-14	0.0012	0.0007	0.01	No	17	0.0009676	0.000199	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-15	0.001367	0.0008333	0.01	No	17	0.001216	0.0004967	23.53	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	SGWC-16	0.001	0.00055	0.01	No	17	0.0009465	0.0001511	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-17	0.001045	0.00075	0.01	No	17	0.0009291	0.0001426	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-18	0.003149	0.001551	0.01	No	17	0.00235	0.001275	0	None	No	0.01	Param.
Arsenic (mg/L)	SGWC-19	0.001	0.00068	0.01	No	17	0.0009565	0.0001241	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-20	0.001	0.00051	0.01	No	17	0.0008994	0.0003394	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-21	0.001	0.00076	0.01	No	17	0.0009859	0.00005821	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-22	0.001	0.00089	0.01	No	17	0.0008929	0.0002285	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-23	0.001	0.00079	0.01	No	17	0.0009647	0.0001046	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-6	0.001	0.0006	0.01	No	17	0.0009118	0.0001989	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-7	0.001	0.0006	0.01	No	17	0.0008965	0.0001798	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-8	0.001	0.00063	0.01	No	17	0.0008688	0.000223	64.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	SGWC-9	0.001	0.00074	0.01	No	17	0.0008794	0.0001931	52.94	None	No	0.01	NP (NDs)
Barium (mg/L)	SGWC-10	0.03276	0.02791	2	No	17	0.03034	0.003872	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-11	0.042	0.03709	2	No	17	0.03955	0.003923	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-12	0.04939	0.03782	2	No	17	0.04303	0.009405	0	None	x^2	0.01	Param.
Barium (mg/L)	SGWC-13	0.03421	0.02609	2	No	17	0.03015	0.006482	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-14	0.06077	0.05285	2	No	17	0.05681	0.006317	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-15	0.03962	0.03362	2	No	17	0.03662	0.004788	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-16	0.02475	0.01859	2	No	17	0.02199	0.005097	0	None	ln(x)	0.01	Param.
Barium (mg/L)	SGWC-17	0.0221	0.01846	2	No	17	0.02028	0.002908	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-18	0.02514	0.01558	2	No	17	0.0209	0.007937	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	SGWC-19	0.04215	0.03481	2	No	17	0.03848	0.005855	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-20	0.03578	0.02648	2	No	17	0.03113	0.007424	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-21	0.1	0.09	2	No	17	0.09592	0.0105	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-22	0.09304	0.08262	2	No	17	0.08783	0.008309	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-23	0.093	0.065	2	No	17	0.07956	0.01209	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-6	0.1033	0.05764	2	No	17	0.08049	0.03646	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-7	0.3055	0.2578	2	No	17	0.2816	0.038	0	None	No	0.01	Param.
Barium (mg/L)	SGWC-8	0.2	0.17	2	No	17	0.1839	0.02137	0	None	No	0.01	NP (normality)
Barium (mg/L)	SGWC-9	0.06912	0.05617	2	No	17	0.06264	0.01033	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-10	0.0025	0.00026	0.004	No	17	0.002368	0.0005433	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-14	0.0025	0.00053	0.004	No	17	0.002249	0.0007114	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-15	0.00059	0.00035	0.004	No	17	0.0007806	0.0008233	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	SGWC-18	0.0025	0.00033	0.004	No	17	0.001489	0.001106	52.94	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-19	0.0025	0.0002	0.004	No	17	0.002091	0.0009117	82.35	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-20	0.0008127	0.0006499	0.004	No	17	0.0007313	0.0001299	0	None	No	0.01	Param.
Beryllium (mg/L)	SGWC-22	0.0025	0.00033	0.004	No	17	0.002372	0.0005263	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-6	0.0025	0.0002	0.004	No	17	0.002365	0.0005578	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	SGWC-8	0.0025	0.0003	0.004	No	17	0.002235	0.0007492	88.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-14	0.0025	0.00057	0.005	No	16	0.002232	0.0007376	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-15	0.0025	0.00032	0.005	No	16	0.00142	0.001117	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	SGWC-18	0.0025	0.0002	0.005	No	16	0.001787	0.001093	68.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-19	0.0025	0.00036	0.005	No	16	0.002366	0.000535	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-20	0.0025	0.000108	0.005	No	16	0.0022	0.0008184	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-21	0.0025	0.00039	0.005	No	16	0.002368	0.0005275	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-6	0.0025	0.00022	0.005	No	16	0.002357	0.00057	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	SGWC-8	0.0025	0.00031	0.005	No	16	0.002363	0.0005475	93.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-12	0.0023	0.002	0.1	No	17	0.002018	0.00007276	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-13	0.002	0.0017	0.1	No	17	0.001982	0.00007276	94.12	None	No	0.01	NP (NDs)

# State Confidence Intervals - All Results

Plant Scherer    Client: Southern Company    Data: Scherer AP    Printed 1/6/2021, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	SGWC-14	0.0026	0.0016	0.1	No	17	0.001841	0.0004199	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-15	0.03523	0.03235	0.1	No	17	0.03379	0.002298	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-16	0.01166	0.009383	0.1	No	17	0.01052	0.001814	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-17	0.006618	0.003941	0.1	No	17	0.005279	0.002136	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-18	0.009419	0.007171	0.1	No	17	0.008295	0.001794	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-19	0.01602	0.01436	0.1	No	17	0.01519	0.001328	0	None	No	0.01	Param.
Chromium (mg/L)	SGWC-20	0.0022	0.0009	0.1	No	17	0.001947	0.0002741	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-21	0.002	0.002	0.1	No	17	0.0019	0.0002345	76.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-22	0.0024	0.0015	0.1	No	17	0.001853	0.0004515	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-23	0.0024	0.0014	0.1	No	17	0.001841	0.0003922	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	SGWC-8	0.0021	0.0013	0.1	No	17	0.001835	0.0004743	52.94	None	No	0.01	NP (NDs)
<b>Cobalt (mg/L)</b>	<b>SGWC-10</b>	<b>0.03255</b>	<b>0.02078</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.02666</b>	<b>0.009399</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>SGWC-11</b>	<b>0.02972</b>	<b>0.0231</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.02641</b>	<b>0.005281</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-12	0.004255	0.002802	0.02	No	17	0.003528	0.00116	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-13	0.008342	0.003611	0.02	No	17	0.005976	0.003776	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-14	0.01226	0.00716	0.02	No	17	0.009709	0.004067	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>SGWC-15</b>	<b>0.2784</b>	<b>0.2595</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.2689</b>	<b>0.01503</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-16	0.004097	0.003341	0.02	No	17	0.003719	0.0006032	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-17	0.0025	0.00041	0.02	No	17	0.0009974	0.0008711	23.53	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-18</b>	<b>0.1638</b>	<b>0.1182</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.141</b>	<b>0.03639</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-19	0.0025	0.00016	0.02	No	17	0.001414	0.001079	47.06	None	No	0.01	NP (normality)
<b>Cobalt (mg/L)</b>	<b>SGWC-20</b>	<b>0.227</b>	<b>0.1611</b>	<b>0.02</b>	<b>Yes</b>	<b>17</b>	<b>0.1941</b>	<b>0.05263</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	SGWC-21	0.0025	0.00016	0.02	No	17	0.001807	0.001107	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-22	0.003629	0.002033	0.02	No	17	0.002911	0.001381	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	SGWC-23	0.0025	0.00013	0.02	No	17	0.002361	0.0005748	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-6	0.002475	0.0009441	0.02	No	17	0.002042	0.001186	29.41	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	SGWC-7	0.01166	0.005708	0.02	No	17	0.008682	0.004747	0	None	No	0.01	Param.
Cobalt (mg/L)	SGWC-8	0.00265	0.00049	0.02	No	17	0.001908	0.0009914	64.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	SGWC-9	0.01358	0.007048	0.02	No	17	0.01032	0.005216	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-10	0.47	0.0222	5	No	17	0.3113	0.3776	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-11	0.5371	0.1597	5	No	17	0.3484	0.3012	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-12	0.4754	0.1658	5	No	17	0.3206	0.247	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-13	0.4626	0.1318	5	No	17	0.2972	0.264	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-14	0.3975	0.0762	5	No	17	0.2368	0.2563	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-15	0.4846	0.2242	5	No	17	0.3544	0.2078	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-16	0.3809	0.1012	5	No	17	0.241	0.2232	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-17	0.4382	0.1649	5	No	17	0.3015	0.2181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-18	0.449	0.139	5	No	17	0.391	0.3843	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-19	0.396	0.0462	5	No	17	0.281	0.3745	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-20	0.639	0.315	5	No	17	0.477	0.2586	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-21	0.514	0.143	5	No	17	0.3878	0.3782	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	SGWC-22	0.5491	0.1378	5	No	17	0.3912	0.445	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-23	0.6918	0.3916	5	No	17	0.5417	0.2395	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-6	0.4094	0.1216	5	No	17	0.2655	0.2297	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-7	0.4989	0.2727	5	No	17	0.3858	0.1805	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-8	2.558	2.027	5	No	17	2.292	0.424	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	SGWC-9	0.4168	0.1295	5	No	17	0.2731	0.2293	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-10	0.1	0.031	4	No	18	0.09167	0.02434	88.89	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-11	0.1	0.08	4	No	18	0.09283	0.01836	83.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-12	0.1046	0.06295	4	No	18	0.09289	0.03318	22.22	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-13	0.15	0.045	4	No	18	0.08911	0.03037	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-14	0.1	0.031	4	No	18	0.07756	0.03284	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-15	0.14	0.11	4	No	18	0.1422	0.05962	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-16	0.1	0.09	4	No	18	0.08694	0.02895	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-17	0.1	0.047	4	No	18	0.08372	0.03306	50	None	No	0.01	NP (normality)

# State Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	SGWC-18	0.18	0.091	4	No	18	0.09385	0.0316	72.22	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-19	0.18	0.057	4	No	18	0.0972	0.03043	83.33	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-20	0.2694	0.184	4	No	18	0.2299	0.07583	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	SGWC-21	0.09738	0.06776	4	No	18	0.09278	0.02317	38.89	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-22	0.1	0.1	4	No	18	0.08872	0.02605	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	SGWC-23	0.1	0.044	4	No	18	0.07867	0.02664	50	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-6	0.14	0.089	4	No	18	0.1168	0.03718	16.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	SGWC-7	0.2229	0.1733	4	No	18	0.1981	0.04099	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-8	0.4693	0.3564	4	No	18	0.4129	0.09329	0	None	No	0.01	Param.
Fluoride, total (mg/L)	SGWC-9	0.1	0.061	4	No	18	0.08622	0.02426	50	None	No	0.01	NP (normality)
Lead (mg/L)	SGWC-10	0.001	0.00014	0.001	No	17	0.0008982	0.0002873	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-13	0.001	0.00039	0.001	No	17	0.0009641	0.0001479	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-14	0.001	0.00066	0.001	No	17	0.0009306	0.000215	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-15	0.001	0.00023	0.001	No	17	0.0009547	0.0001868	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-16	0.001	0.00013	0.001	No	17	0.0009488	0.000211	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-20	0.001	0.00025	0.001	No	17	0.0006724	0.0003653	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-21	0.001	0.00022	0.001	No	17	0.0009006	0.0002816	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-22	0.001	0.00019	0.001	No	17	0.0009041	0.0002707	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-23	0.001	0.00009	0.001	No	17	0.0009465	0.0002207	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-6	0.001	0.0002	0.001	No	17	0.0009529	0.000194	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-7	0.001	0.00085	0.001	No	17	0.0009912	0.0003638	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	SGWC-8	0.001	0.00029	0.001	No	17	0.0009582	0.0001722	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-11	0.005	0.0029	0.005	No	17	0.004047	0.001407	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-12	0.005	0.0011	0.005	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-13	0.005	0.0014	0.005	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-14	0.005	0.0011	0.005	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-15	0.005	0.003	0.005	No	17	0.0041	0.0009559	47.06	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-16	0.005	0.0015	0.005	No	17	0.004794	0.0008489	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-17	0.005	0.0014	0.005	No	17	0.004788	0.0008731	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-18	0.004745	0.003829	0.005	No	17	0.004676	0.0006713	29.41	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	SGWC-19	0.005	0.0022	0.005	No	17	0.004665	0.0009467	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-20	0.004867	0.003896	0.005	No	16	0.004381	0.0007458	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-21	0.005	0.0038	0.005	No	17	0.004394	0.001219	76.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-22	0.005	0.0033	0.005	No	17	0.004529	0.001121	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	SGWC-23	0.005	0.0032	0.005	No	17	0.004212	0.0008838	41.18	None	No	0.01	NP (normality)
Lithium (mg/L)	SGWC-7	0.005421	0.004167	0.005	No	16	0.004794	0.0009637	0	None	No	0.01	Param.
Lithium (mg/L)	SGWC-8	0.005	0.0021	0.005	No	17	0.004088	0.001468	70.59	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-10	0.0002	0.00013	0.002	No	17	0.0001959	0.00001698	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-11	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-12	0.0002	0.000093	0.002	No	17	0.0001937	0.00002595	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-13	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-14	0.0002	0.00012	0.002	No	17	0.0001829	0.00003852	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-15	0.0002	0.00011	0.002	No	17	0.0001533	0.00004641	41.18	None	No	0.01	NP (normality)
Mercury (mg/L)	SGWC-16	0.0002	0.000076	0.002	No	17	0.0001927	0.00003007	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-17	0.0002	0.00011	0.002	No	17	0.0001894	0.00002989	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-18	0.0001761	0.0001052	0.002	No	17	0.0001728	0.00004876	29.41	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	SGWC-20	0.0002	0.000082	0.002	No	17	0.0001856	0.00004071	88.24	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-21	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-22	0.0002	0.000099	0.002	No	17	0.0001941	0.0000245	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-23	0.00028	0.00011	0.002	No	17	0.0001865	0.00004754	76.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-6	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-7	0.0002	0.00011	0.002	No	17	0.0001947	0.00002183	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-8	0.0002	0.000076	0.002	No	17	0.0001927	0.00003007	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	SGWC-9	0.0002	0.0001	0.002	No	17	0.0001941	0.00002425	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-12	0.015	0.0012	0.015	No	16	0.01327	0.004731	87.5	None	No	0.01	NP (NDs)

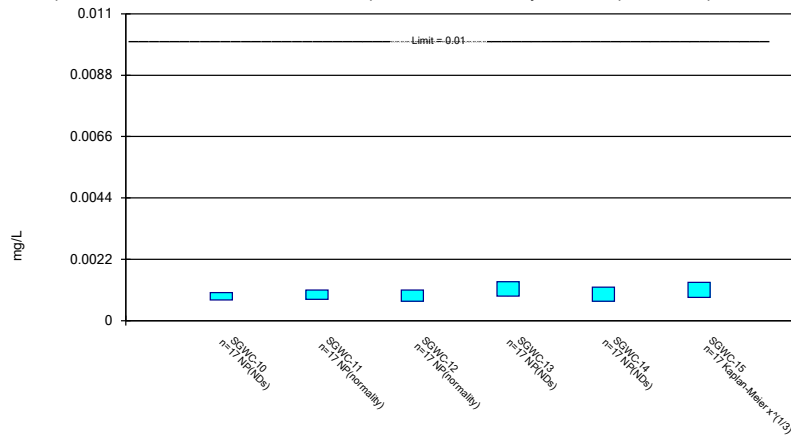
# State Confidence Intervals - All Results

Plant Scherer Client: Southern Company Data: Scherer AP Printed 1/6/2021, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	SGWC-14	0.015	0.003	0.015	No 16	0.01336	0.004491	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-6	0.015	0.00099	0.015	No 16	0.01323	0.004835	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-7	0.015	0.0013	0.015	No 16	0.005233	0.005875	25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	SGWC-8	0.015	0.0008	0.015	No 16	0.01411	0.00355	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	SGWC-9	0.015	0.00075	0.015	No 16	0.008034	0.007202	50	None	No	0.01	NP (normality)
Selenium (mg/L)	SGWC-11	0.005	0.00046	0.05	No 17	0.004733	0.001101	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-12	0.005	0.00031	0.05	No 17	0.004724	0.001137	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-13	0.005	0.00064	0.05	No 17	0.004467	0.001506	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-14	0.005	0.00084	0.05	No 17	0.0045	0.001412	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-15	0.003064	0.0008773	0.05	No 17	0.003947	0.002846	41.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-16	0.005	0.0013	0.05	No 17	0.003678	0.001867	64.71	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-17	0.005	0.00064	0.05	No 17	0.004186	0.001814	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-18	0.01298	0.00446	0.05	No 17	0.009859	0.008406	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	SGWC-19	0.005	0.00096	0.05	No 17	0.004241	0.001693	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-20	0.0053	0.0011	0.05	No 17	0.003726	0.00196	58.82	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-23	0.005	0.00033	0.05	No 17	0.004165	0.00186	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-6	0.005	0.00057	0.05	No 17	0.00419	0.001804	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	SGWC-7	0.005	0.00034	0.05	No 17	0.004726	0.00113	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-10	0.001	0.00075	0.002	No 17	0.0009324	0.0002229	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-11	0.001	0.00016	0.002	No 17	0.0009506	0.0002037	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-12	0.001	0.00034	0.002	No 17	0.0009159	0.0002383	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-13	0.001	0.00022	0.002	No 17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-14	0.0011	0.00035	0.002	No 17	0.0009194	0.0002493	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-15	0.001	0.000095	0.002	No 17	0.0004619	0.0004207	35.29	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-18	0.00027	0.00012	0.002	No 17	0.0002515	0.0002329	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-20	0.00028	0.00014	0.002	No 17	0.00023	0.0002066	5.882	None	No	0.01	NP (normality)
Thallium (mg/L)	SGWC-22	0.001	0.00038	0.002	No 17	0.0009635	0.0001504	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-23	0.001	0.00016	0.002	No 17	0.0009506	0.0002037	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-6	0.001	0.00049	0.002	No 17	0.0009276	0.0002076	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-7	0.001	0.00022	0.002	No 17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-8	0.001	0.00079	0.002	No 17	0.0008953	0.0002611	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	SGWC-9	0.001	0.00027	0.002	No 17	0.0009571	0.0001771	94.12	None	No	0.01	NP (NDs)

### Parametric and Non-Parametric (NP) Confidence Interval

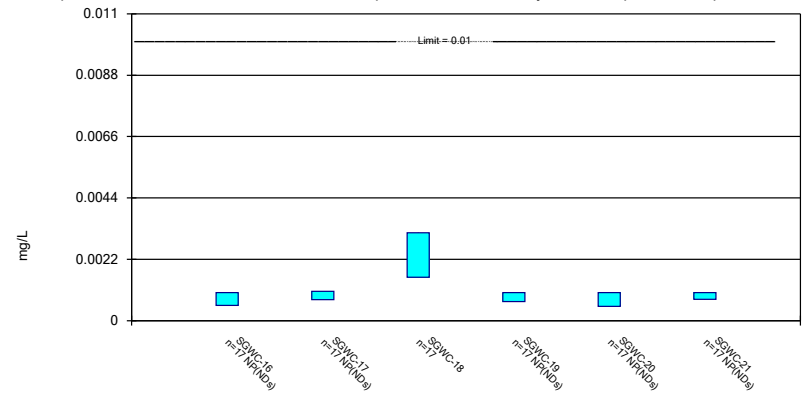
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

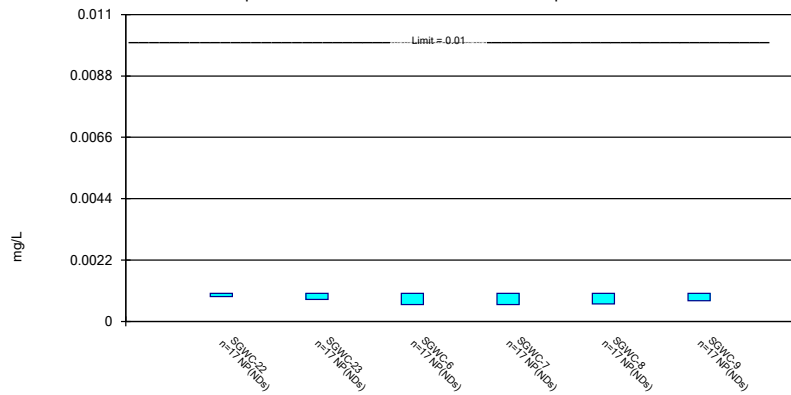
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

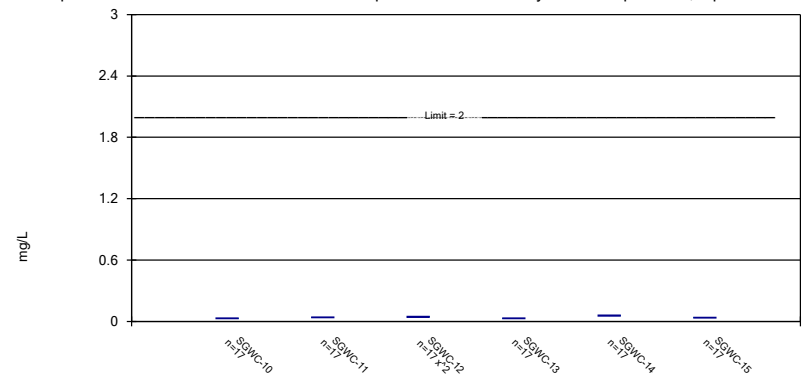
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

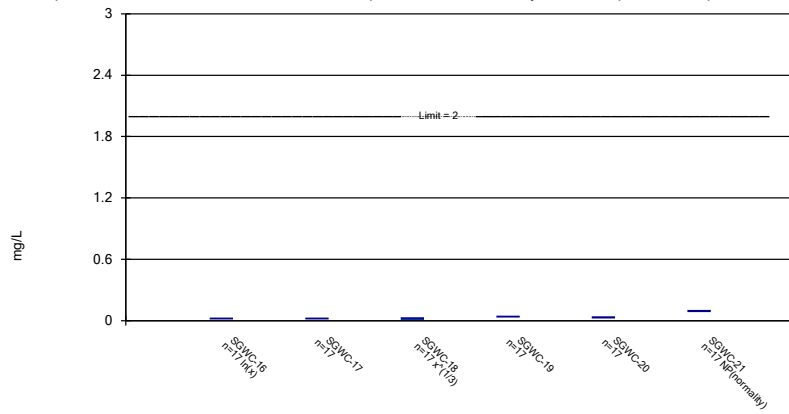


Constituent: Barium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP



Parametric and Non-Parametric (NP) Confidence Interval

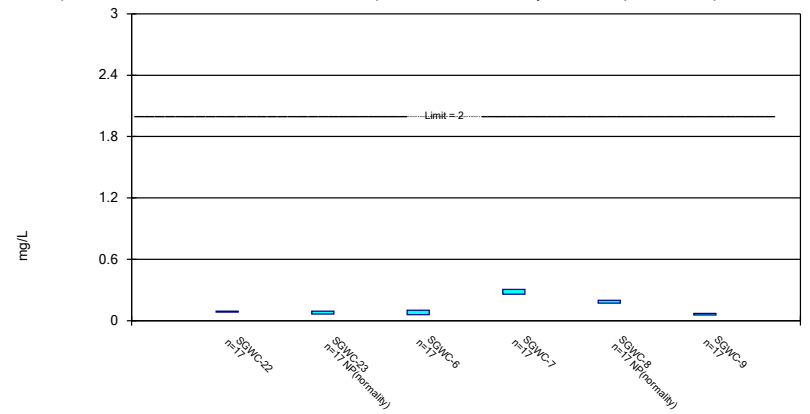
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

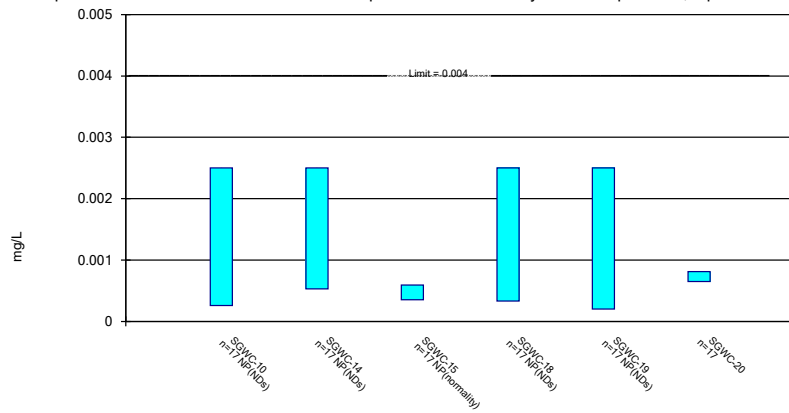
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

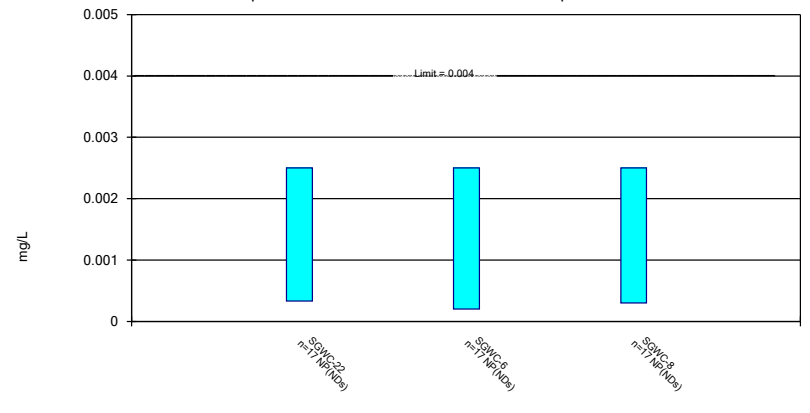
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

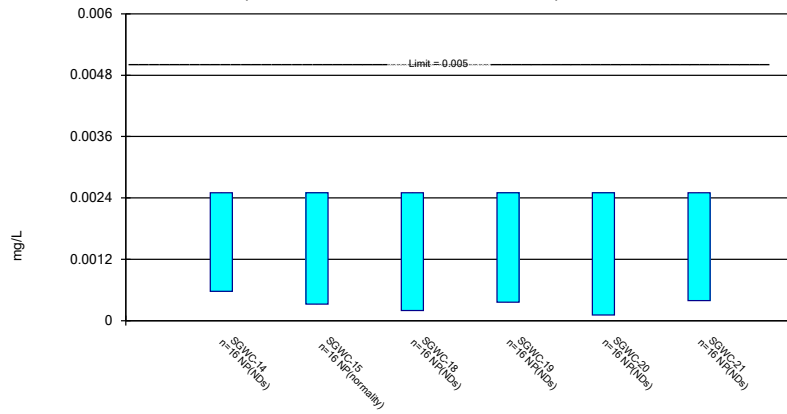
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

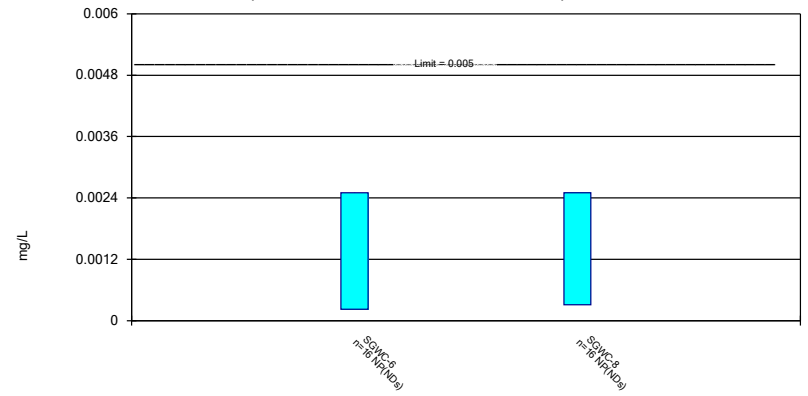
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

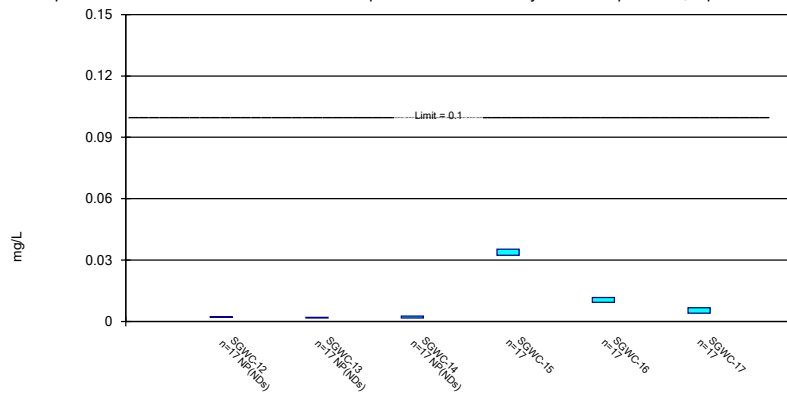
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

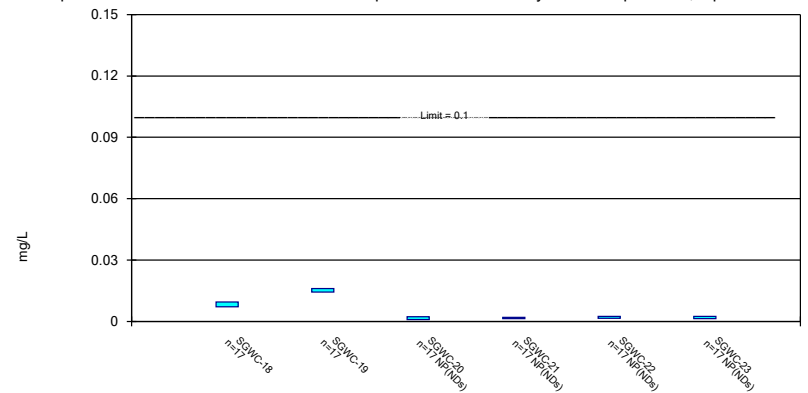
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

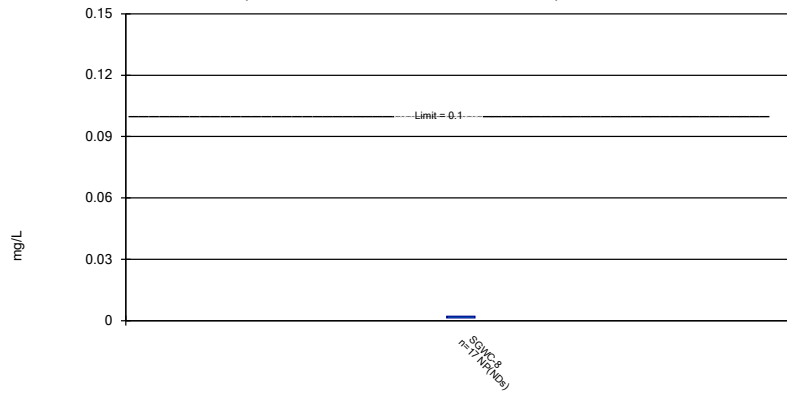
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

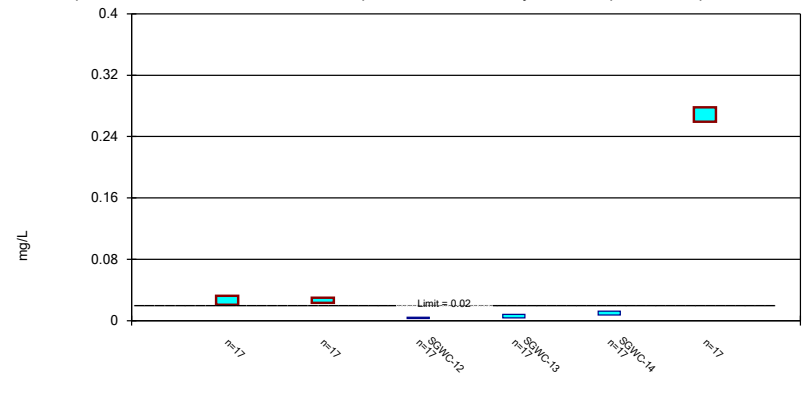
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric Confidence Interval

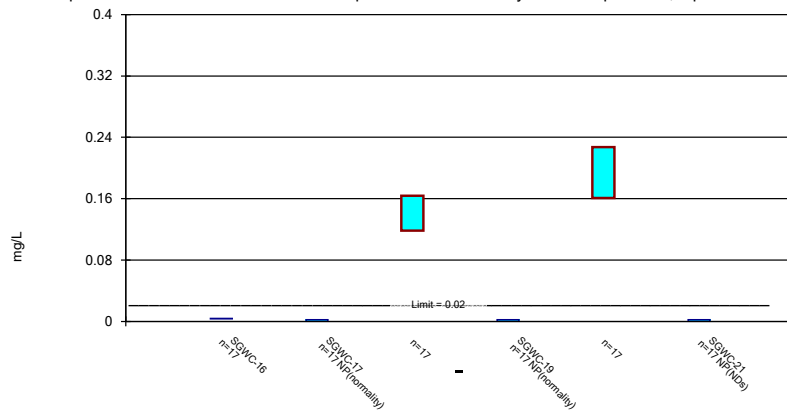
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

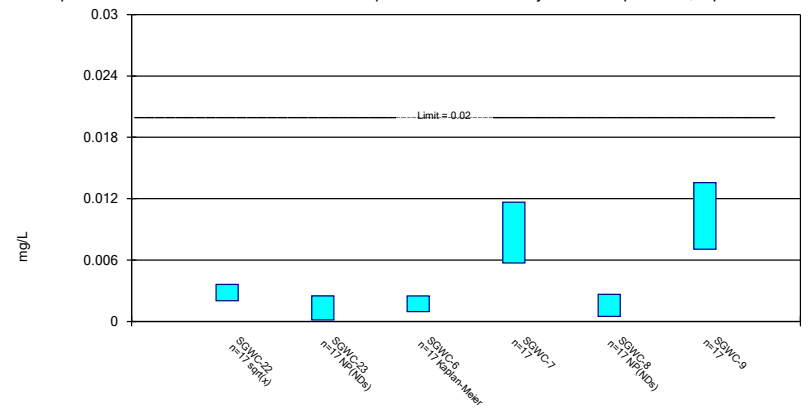
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

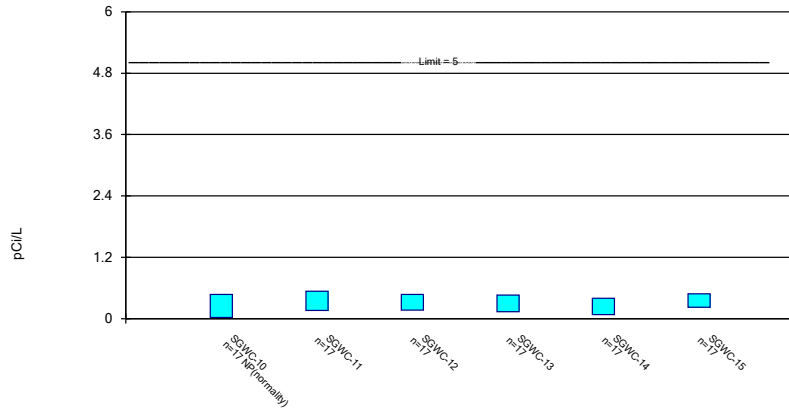
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

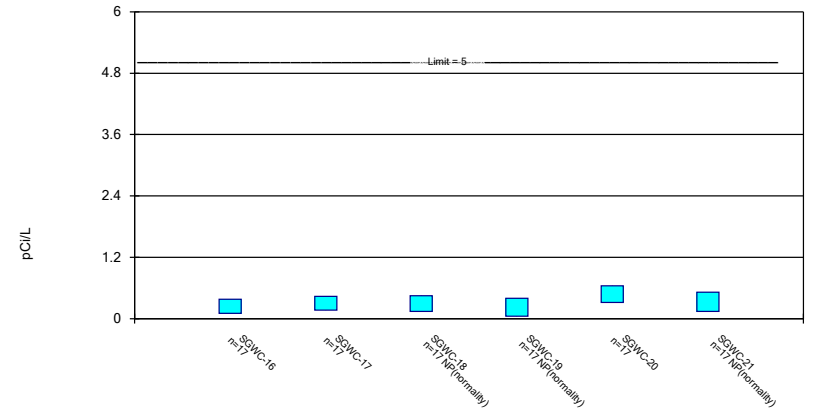
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

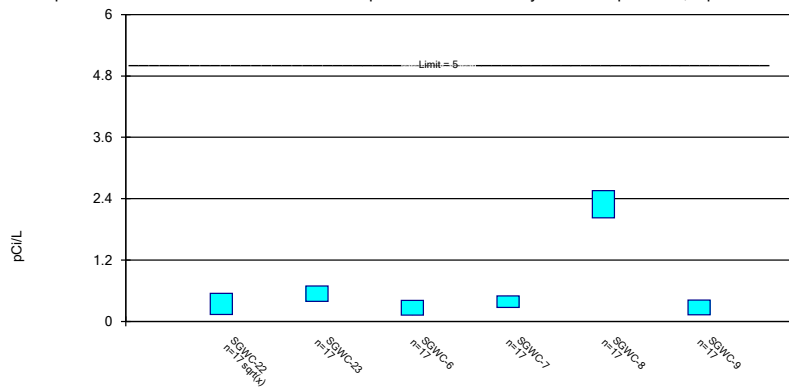
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

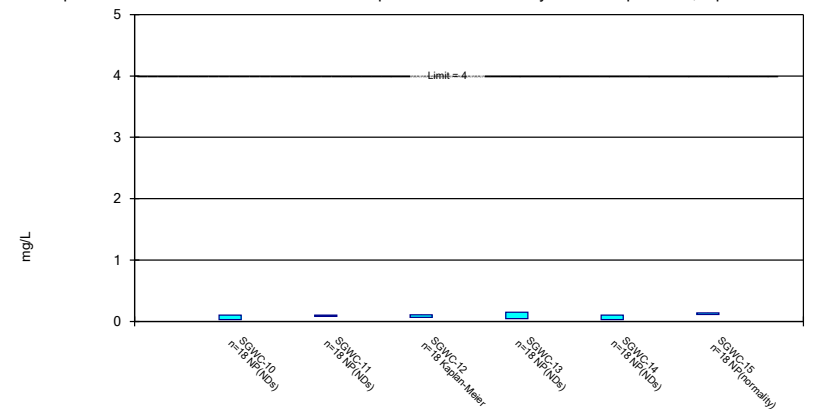
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

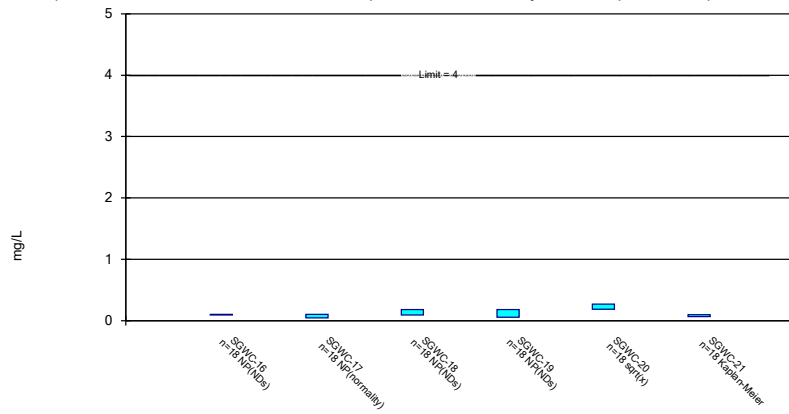
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

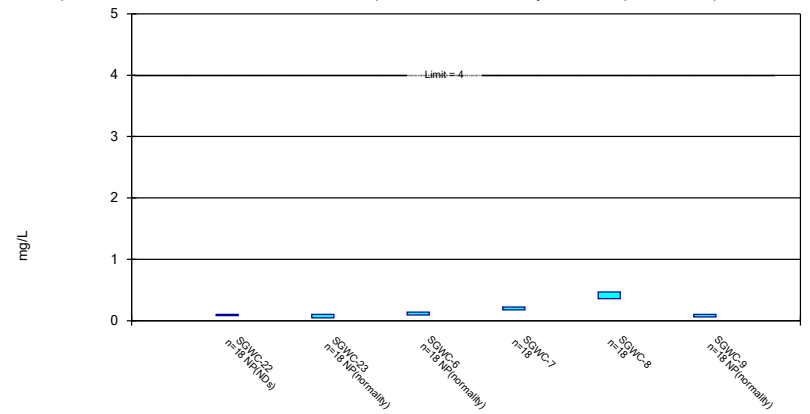
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

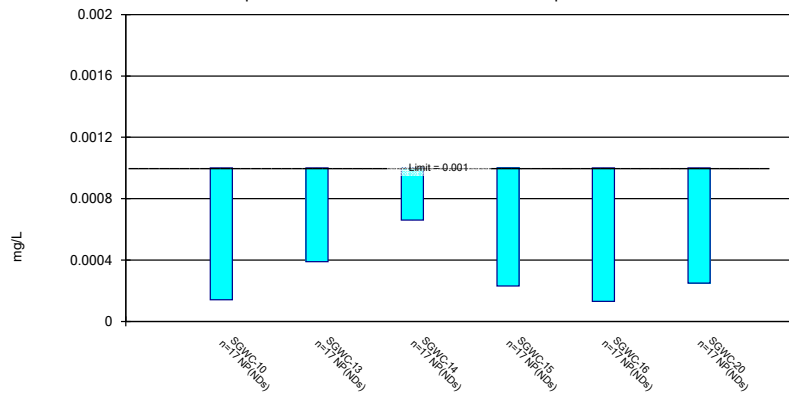
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

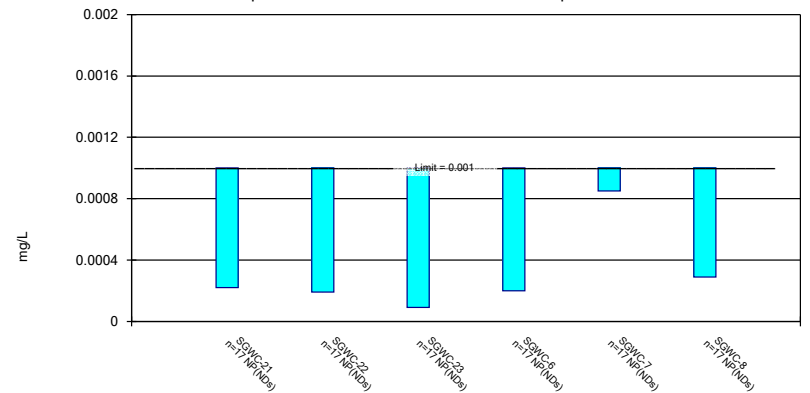
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

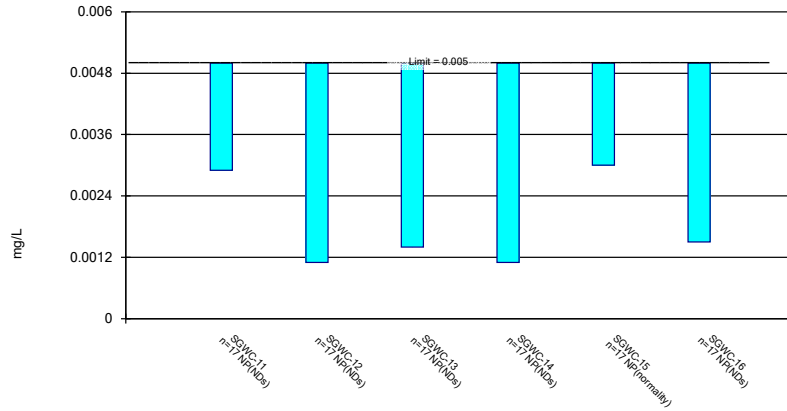
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

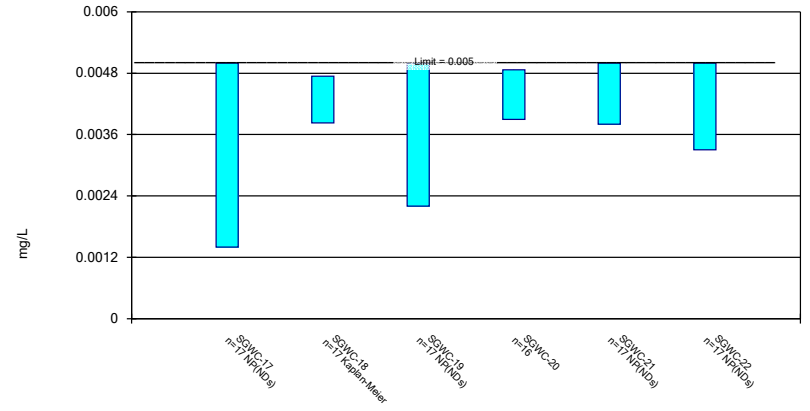
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

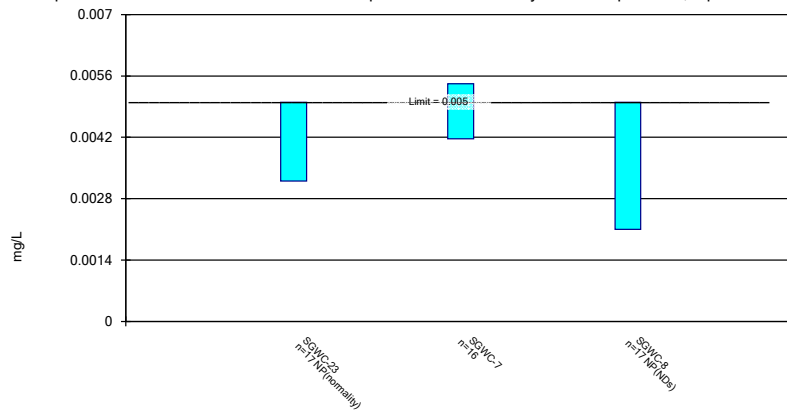
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Parametric and Non-Parametric (NP) Confidence Interval

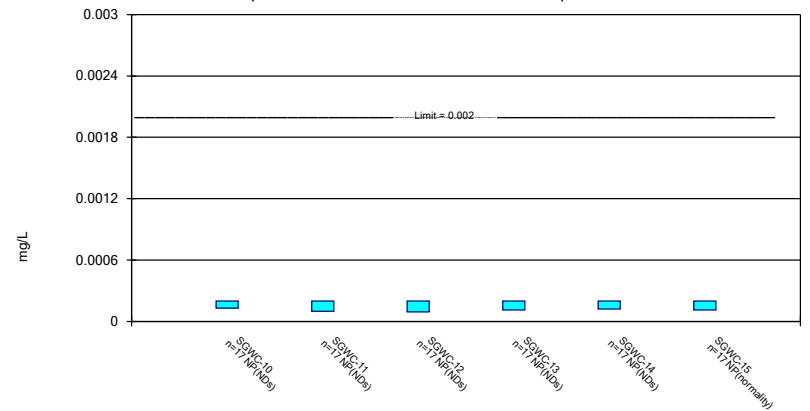
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

### Non-Parametric Confidence Interval

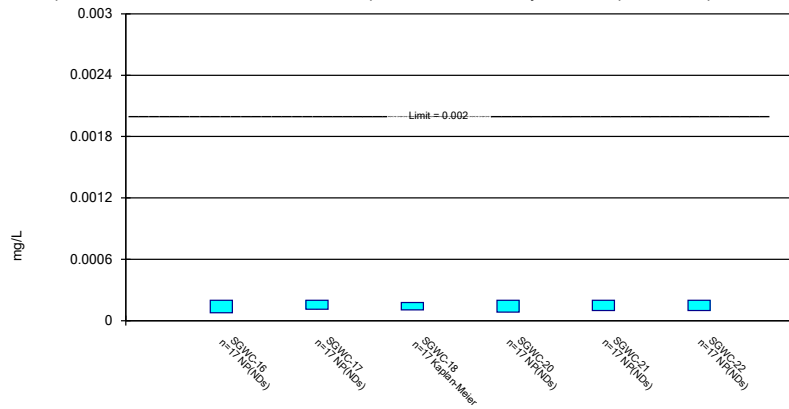
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

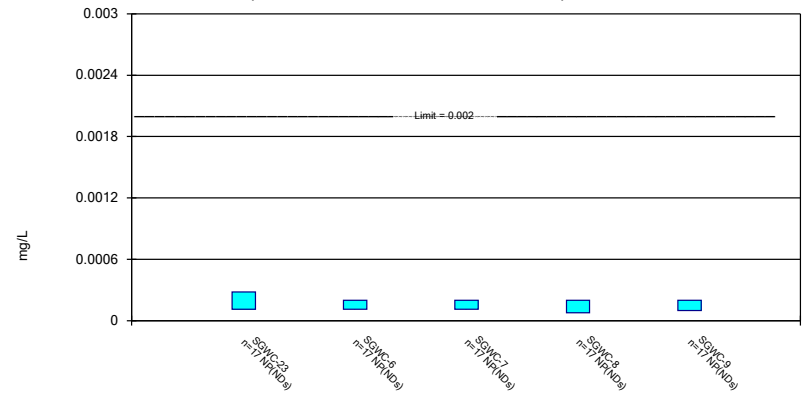
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

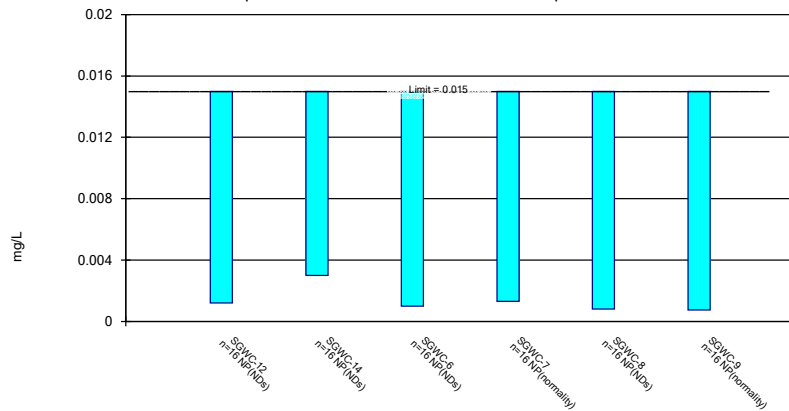
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

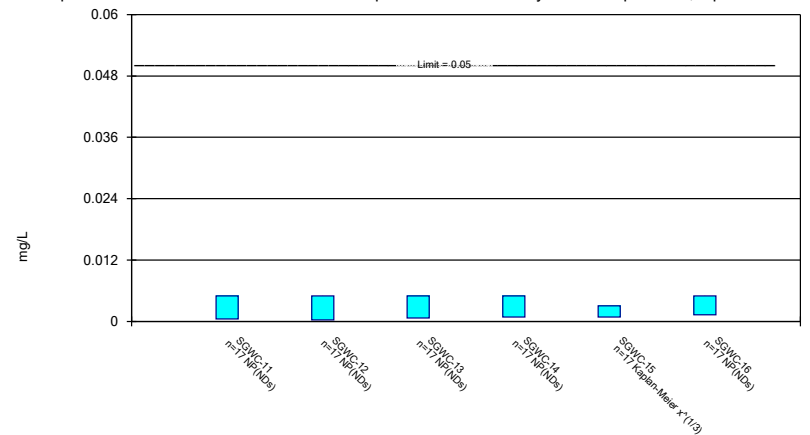
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

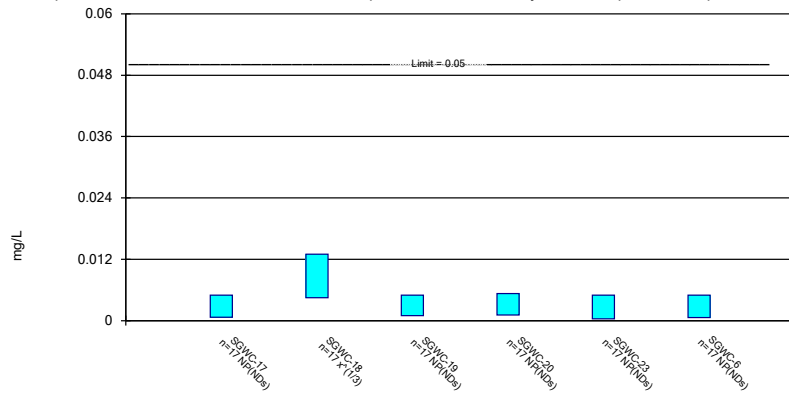
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

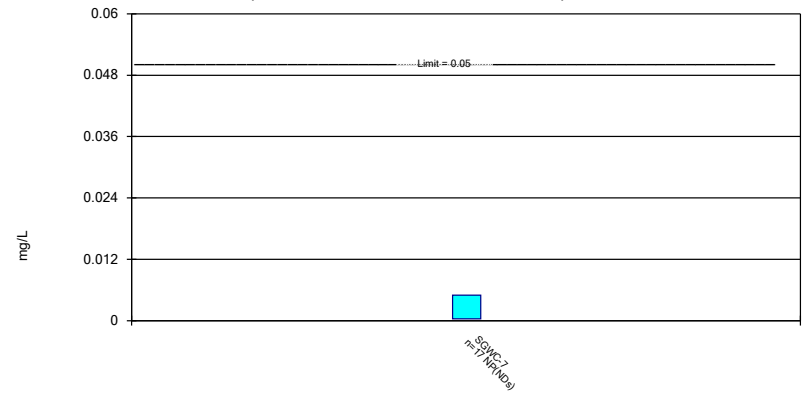
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

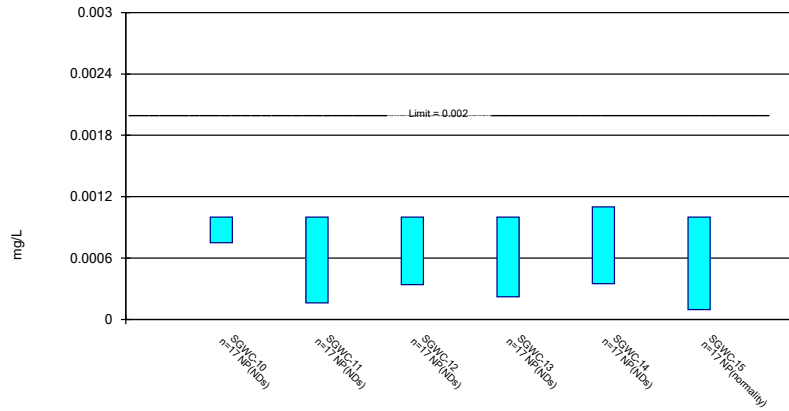
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

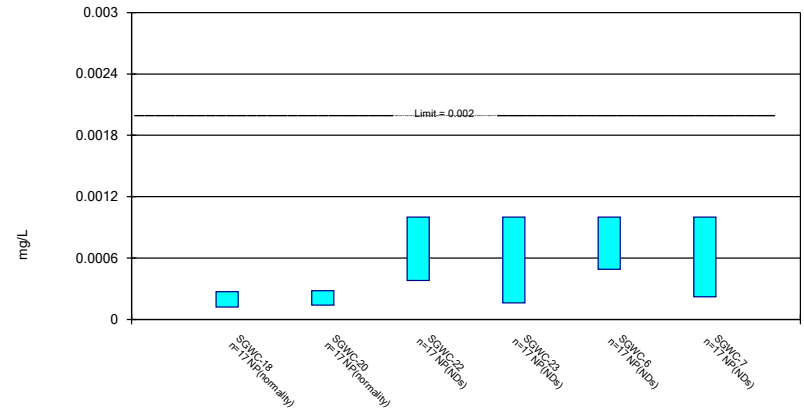
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

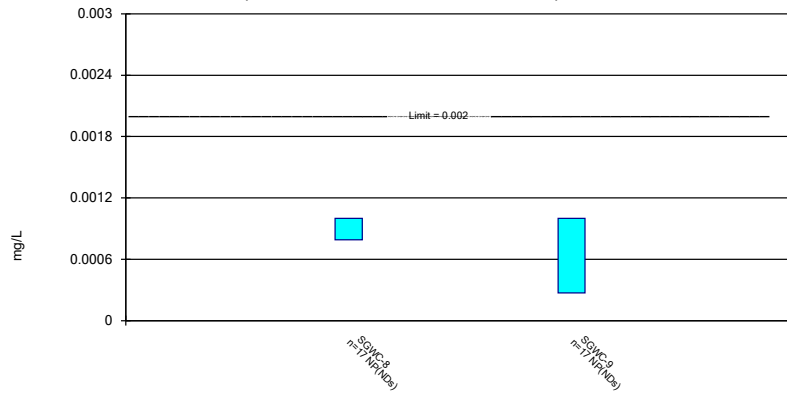


Constituent: Thallium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
 Plant Scherer Client: Southern Company Data: Scherer AP



### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/6/2021 12:08 PM View: Appendix IV  
Plant Scherer Client: Southern Company Data: Scherer AP



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