



GOLDER

REPORT

2020 Semi-Annual Groundwater Monitoring & Corrective Action Report

Georgia Power Company - Plant Scherer Ash Pond 1

Submitted to:



Georgia Power

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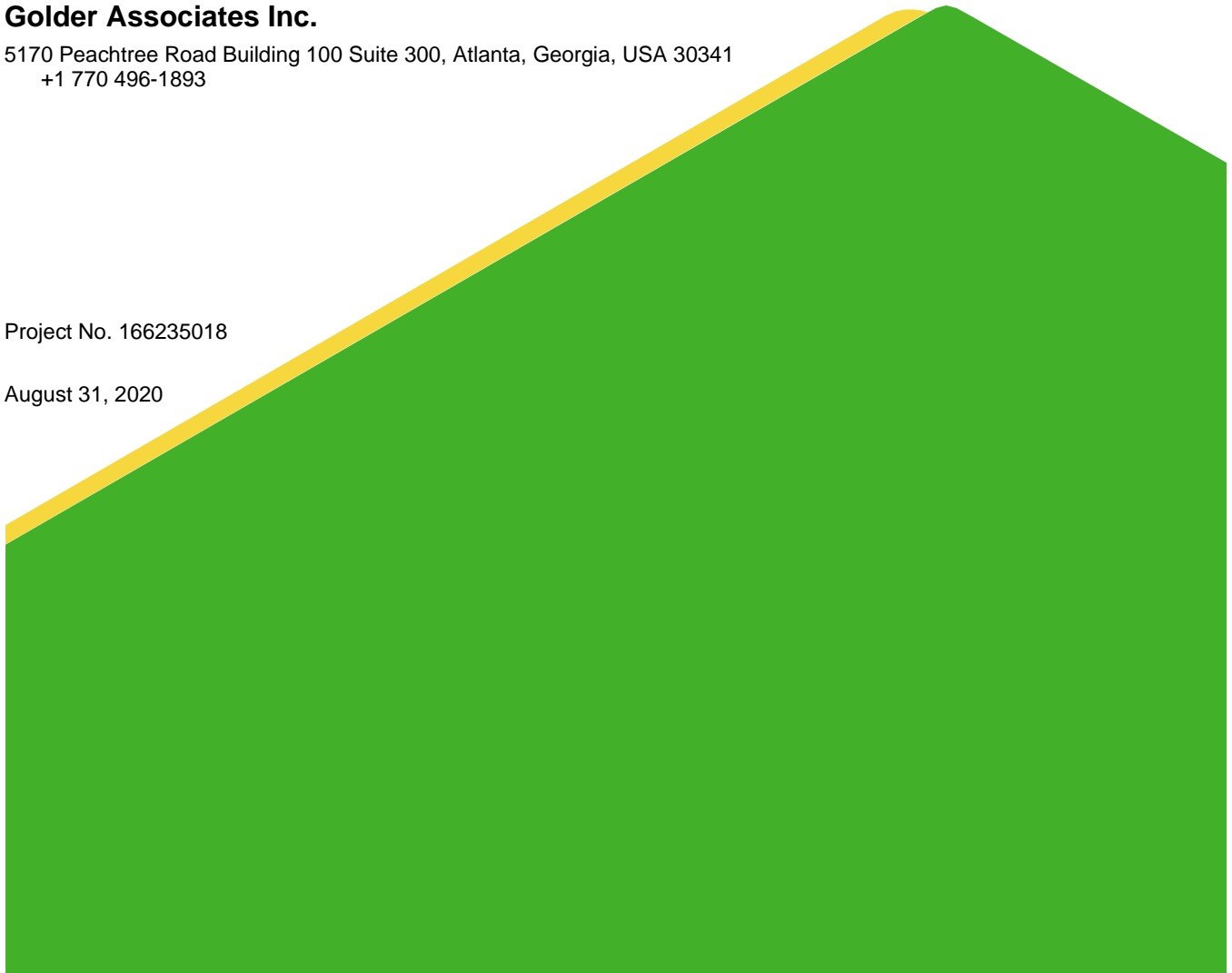


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Certification Statement

This 2020 Semi-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.



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1.0 INTRODUCTION

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

A permit application for AP-1 was submitted to GA EPD in November 2018 and is currently pending revisions. 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 GA EPD Chapter 391-3-4.10 Solid Waste Management; Solid Waste Program; and the Groundwater Monitoring Plan for Plant Scherer AP-1, prepared by Golder Associates, November 2018.

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, GA, approximately 5 miles south of Juliette, GA. The property occupies approximately 12,000 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). The ash pond 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 and subsections include 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.

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 to serve as upgradient, and downgradient wells 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. Between February 2020 and May 2020, additional piezometers were installed at the site to further define groundwater gradient and flow direction and for additional sampling as warranted. 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 the first half of 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 the first half of 2020, the network remained the same as in 2019. 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.

The AP-1 well network was 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 new survey data are incorporated into this report's applicable tables. A copy of the well survey data certified by a Georgia-licensed surveyor is included in Appendix B.

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.

Groundwater sampling events were conducted for AP-1 during February and March 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 2020 semi-annual sampling event, 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 A, Analytical Results, Field Data Forms, Well Inspection Forms and Data Validation Summaries.

2.3 Supplemental Piezometer Installations

Between February 2020 and May 2020, additional piezometers (PZ-45 through PZ-68) were installed at the site to further define groundwater gradient and flow direction and for additional sampling as warranted. Piezometer construction logs and documentation of piezometer installations are presented in a report, Piezometer Installation Report – (PZ-45 through PZ-68), Georgia Power Company – Plant Scherer, Juliette, Georgia. This report is included as Appendix B, Piezometer Installation Report.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

Sampling events completed for AP-1 represent both the annual Appendix IV monitoring event as well as the semi-annual assessment monitoring event for AP-1 at Plant Scherer. Groundwater analytical data and chain of custody records are presented in Appendix A.

3.1 Groundwater Elevation Measurement

Prior to the March 2020 sampling event, groundwater elevations were recorded from each well and piezometer. Following installation of additional site piezometers, another round of water levels was recorded on May 6, 2020. 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 and Figure 3B, AP-1 Potentiometric Surface Elevation Contour Map - May 6, 2020. Review of Figure 3A and 3B 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, and Table 4B, Horizontal Groundwater Velocity Calculations – May 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 March and May 2020, horizontal groundwater velocities are calculated for various areas of the site and are tabulated on Table 4A and Table 4B.

As presented on Table 4A and Table 4B groundwater flow velocity at the site ranges from approximately 0.05 ft/day to 0.23 ft/day across AP-1 and are generally consistent with expected velocities in the regolith-upper bedrock aquifer and confirm the groundwater monitoring system as 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)

Any deviation from stabilization criteria, if applicable, is identified on field sampling forms. 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 A.

Where sample turbidity was greater than 5 NTU and all other stabilization criteria were met, samplers continued purging for up to 3 additional hours in order to reduce the turbidity to 5 NTU or less. When turbidity remained above 5 NTU but was less than 10 NTU, and all other parameters are stabilized, the well was sampled. Where turbidity remained above 10 NTU, an additional unfiltered sample was collected followed by a filtered sample that has passed through an in-line 0.45-micron filter attached to the discharge (sample collection) tube. The unfiltered sample data are used for compliance monitoring and in the statistical analysis database. Filtered sample data are used to assess the impacts of turbidity on groundwater quality. Additional details regarding filtered samples are recorded on the field information form and filtered samples are clearly identified as “filtered” on the laboratory reports.

Environmental monitoring field data sheets are included with the analytical reports in Appendix A. Field data and sampling notes for each monitoring well are recorded on the field information forms, which contains a description of the sampling equipment, sampling method, purge rate, field observations, and depth to water measurements at each monitoring location.

Supplemental Groundwater Sampling

On March 31, 2020 groundwater piezometers PZ-52, PZ-53, PZ-54, and PZ-55 were sampled as part of an ongoing groundwater quality evaluation study for Appendix III and Appendix IV constituents. Results of these analyses are included in Appendix A.

3.4 Laboratory Analyses

Groundwater samples were collected during two groundwater monitoring events in the first half of 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 2020 sampling event represents the semi-annual sampling event in 2020 for AP-1 at Plant Scherer. Because AP-1 is currently in assessment monitoring, groundwater samples from wells in the detection monitoring program were analyzed for Appendix III and the detected Appendix IV monitoring parameters per 40 CFR Parts 257 and 261. Tables 5A and 5B, 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 A.

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 A.

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 A. Flagged data identified in the statistical analysis reports are described in the following section.

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.

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.

The following table provides a summary of the statistical methodology used at AP-1 for the March 2020 monitoring events and will be used for any routine detection monitoring in the future.

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,

PLANT SCHERER AP-1 STATISTICAL METHOD SUMMARY		
		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 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.
	Verification Resample Plan (Optional)	1-of-3 with minimum of 8 samples per well for interwell testing. <ul style="list-style-type: none"> ▪ Initial statistical exceedance warrants independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If resample exceeds, well/parameter has a confirmed SSI. 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, updating providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Presently those updated GWPS have not yet been incorporated in the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, background concentrations are considered when determining the GWPS for constituents where an MCL has not been established (or where background is higher than the MCL). Under the existing EPD rules, the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above federal and state rule 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 GWPS established under State and Federal rules.

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

TABLE 4.1.2 Summary of Background Levels and GWPSs

Analyte	Units	Maximum Contaminant Level (MCL)	Site Specific Background March 2020 ^[1]	GWPS ^[2]
Antimony	mg/L	0.006	0.0021	0.006
Arsenic	mg/L	0.01	0.0015	0.01
Barium	mg/L	2	0.071	2
Beryllium	mg/L	0.004	0.0025	0.004
Cadmium	mg/L	0.005	0.0025	0.005

TABLE 4.1.2 Summary of Background Levels and GWPSs

Analyte	Units	Maximum Contaminant Level (MCL)	Site Specific Background March 2020 ^[1]	GWPS ^[2]
Chromium	mg/L	0.1	0.02	0.1
Cobalt	mg/L	NA	0.02	0.02
Fluoride	mg/L	4	0.108	4
Lead	mg/L	NA	0.001 ^[4]	0.001
Lithium	mg/L	NA	0.005 ^[4]	0.005
Mercury	mg/L	0.002	0.0005	0.002
Molybdenum	mg/L	NA	0.015	0.015
Radium (226 + 228)	pCi/L	5	1.2	5
Selenium	mg/L	0.05	0.005	0.05
Thallium	mg/L	0.002	0.001	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.

A summary table of the statistical results accompanies the prediction limits for Appendix III and confidence intervals for Appendix IV in Appendix C, Statistical Analyses. The background period for statistical analyses included data through March 2020. Tolerance limits for confidence interval calculations are updated to include current data. Due to varying reporting limits in background, the most recent reporting limit is used when data is not reported above detection limits. This results in a more appropriate statistical test.

4.2 Statistical Analysis Results

Analytical data from the semi-annual monitoring event in March 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 2020 monitoring event are included in Appendix C.

4.2.1 Appendix III Statistical Results – Semi-Annual 2020

Based on the statistical results presented in Appendix C, SSIs of boron, calcium, chloride, fluoride, pH, sulfate and total dissolved solids at various wells were identified following the March 2020 semi-annual monitoring event.

A detailed list of the noted exceedances is provided in Appendix C. 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 Assessment Monitoring Statistical Results – Semi-Annual 2020

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, 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, there are 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 are 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 RBSL.
- Natural dissolution of cobalt into groundwater at low pH under natural aquifer environment based on site-specific mineralogical data and geochemical conditions.
- 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 2020 sampling event, AP-1 will remain in assessment monitoring.

6.0 CONCLUSIONS AND FUTURE ACTIONS

This 2020 *Semi-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 this event is consistent with historical evaluations.

Review of analytical results and statistical analyses developed for the site indicates that statistical exceedances identified during the semi-annual 2020 event can be addressed by the previously submitted ASD and can be attributed to natural variability in groundwater chemistry. 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 September 2020.

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	Geologic Unit Screened	Latitude	Longitude	Ground Surface Elevation (feet)	Top of Casing Elevation (feet msl)	Well Depth (feet bgs)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Screen Length (feet)	Date of Installation
ASH POND MONITORING WELL NETWORK											
SGWA-1	Upgradient	Saprolite	33.076568	-83.829372	544.1	546.83	50.9	503.80	493.80	10.0	2/11/2015
SGWA-2	Upgradient	Bedrock	33.076581	-83.829345	544.0	546.94	95.8	502.70	492.70	10.0	2/17/2015
SGWA-24	Upgradient	Saprolite	33.073507	-83.826630	489.3	492.38	38.1	473.20	463.20	10.0	2/10/2015
SGWA-25	Upgradient	Saprolite	33.080194	-83.826233	523.2	526.49	45.0	488.80	478.80	10.0	2/18/2015
SGWA-3	Upgradient	Saprolite	33.079297	-83.831331	542.9	545.83	50	502.47	492.47	10.0	11/18/2015
SGWA-4	Upgradient	Saprolite	33.082725	-83.825350	544.8	547.66	60.5	493.75	483.75	10.0	11/17/2015
SGWA-5	Upgradient	Saprolite	33.073444	-83.837459	505.7	508.48	30	485.32	475.32	10.0	11/18/2015
SGWC-10	Downgradient	Saprolite	33.083849	-83.815804	506.6	509.41	30	486.30	476.3	10.0	11/5/2015
SGWC-11	Downgradient	Saprolite	33.082875	-83.814877	508.6	511.47	40	478.30	468.3	10.0	10/29/2015
SGWC-12	Downgradient	Saprolite	33.082964	-83.812664	497.7	500.53	47	460.35	450.35	10.0	10/30/2015
SGWC-13	Downgradient	Saprolite	33.082127	-83.810214	479.9	482.71	35	454.75	444.75	10.0	11/4/2015
SGWC-14	Downgradient	Saprolite	33.081273	-83.808361	473.3	476.72	35.3	448.50	438.50	10.0	2/24/2015
SGWC-15	Downgradient	Saprolite	33.079136	-83.805875	479.7	482.75	45.2	445.50	435.50	10.0	2/26/2015
SGWC-16	Downgradient	Saprolite	33.076470	-83.805684	457.0	460.31	39.2	428.10	418.10	10.0	3/3/2015
SGWC-17	Downgradient	Saprolite	33.073960	-83.805330	414.9	418.00	24.5	400.70	390.70	10.0	3/11/2015
SGWC-18	Downgradient	Saprolite	33.070223	-83.806443	510.3	513.29	44.5	476.20	466.20	10.0	3/17/2015
SGWC-19	Downgradient	Saprolite	33.067693	-83.809176	475.8	478.94	34.6	451.60	441.60	10.0	3/18/2015
SGWC-20	Downgradient	Saprolite	33.06769	-83.811753	501.5	504.60	25	486.12	476.12	10.0	11/19/2015
SGWC-21	Downgradient	Saprolite	33.066021	-83.815384	484.7	487.67	24.9	470.30	460.30	10.0	5/6/2015
SGWC-22	Downgradient	Saprolite	33.066390	-83.819285	515.4	518.02	46.9	479.10	469.10	10.0	1/22/2015
SGWC-23	Downgradient	Bedrock	33.069569	-83.822115	520.0	523.10	49.7	480.80	470.80	10.0	2/3/2015
SGWC-6	Downgradient	Saprolite	33.084614	-83.822550	507.7	510.49	25	492.94	482.94	10.0	11/12/2015
SGWC-7	Downgradient	Bedrock	33.085990	-83.821631	503.5	506.40	35	478.32	468.32	10.0	11/11/2015
SGWC-8	Downgradient	Bedrock	33.086526	-83.819279	511.5	514.28	40	481.05	471.05	10.0	11/11/2015
SGWC-9	Downgradient	Saprolite	33.085885	-83.817728	507.6	510.62	35	482.61	472.61	10.0	11/6/2015

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.

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

Well ID	Hydraulic Location	Geologic Unit Screened	Latitude	Longitude	Ground Surface Elevation (feet)	Top of Casing Elevation (feet msl)	Well Depth (feet bgs)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Screen Length (feet)	Date of Installation
ASH POND PIEZOMETERS											
PZ-2I	Downgradient	Bedrock	33.06640333	-83.81932122	514.8	517.56	84.3	441.20	431.20	10	1/27/2015
PZ-5I	Downgradient	Bedrock	33.07174413	-83.8231329	520.6	523.26	47	484.10	474.10	10	2/4/2015
PZ-6S	Downgradient	Saprolite	33.07291903	-83.8227371	529.0	531.54	54.8	484.80	474.80	10	2/4/2015
PZ-9I	Upgradient	Bedrock	33.08021416	-83.82621441	523.3	526.57	80.2	453.70	443.70	10	2/19/2015
PZ-10S	Downgradient	Saprolite	33.08508549	-83.82323706	514.4	517.53	34.9	489.70	479.70	10	5/5/2015
PZ-11S	Downgradient	Saprolite	33.087361	-83.819968	526.0	529.31	45.9	490.60	480.60	10	4/6/2015
PZ-12S	Downgradient	Saprolite	33.0860221	-83.81719466	514.5	517.69	44.4	480.70	470.70	10	4/1/2015
PZ-13S	Downgradient	Saprolite	33.08401596	-83.81521422	517.5	520.51	45.3	482.50	472.50	10	4/1/2015
PZ-14I	Downgradient	Bedrock	33.08376126	-83.81327276	509.7	512.89	95.2	425.00	415.00	10	3/25/2015
PZ-14S	Downgradient	Saprolite	33.083724	-83.813279	508.7	512.13	44.9	474.30	464.30	10	3/26/2015
PZ-15S	Downgradient	Saprolite	33.08271165	-83.81087348	497.4	500.60	40.1	466.40	456.40	10	4/28/2015
PZ-17I	Downgradient	Bedrock	33.07913315	-83.80583149	479.9	483.03	97.3	393.70	383.70	10	2/27/2015
PZ-19I	Downgradient	Bedrock	33.07472925	-83.80537876	414.5	417.76	71.9	353.00	343.00	10	3/4/2015
PZ-19S	Downgradient	Saprolite	33.07472596	-83.80541146	414.5	417.80	25	400.10	390.10	10	3/4/2015
PZ-20I	Downgradient	Bedrock	33.07398605	-83.80531062	414.3	417.41	79.6	344.90	334.90	10	3/10/2015
PZ-21S	Downgradient	Saprolite	33.07212246	-83.80618934	470.6	473.74	23.4	457.50	447.50	10	3/12/2015
PZ-25I	Downgradient	Saprolite	33.08368507	-83.81408728	525.8	528.39	125.2	410.70	400.70	10	5/24/2016
PZ-25S	Downgradient	Saprolite	33.08371344	-83.8141052	525.5	528.24	55.2	480.50	470.50	10	5/25/2016
PZ-26S	Downgradient	Saprolite	33.08328634	-83.81030096	489.1	491.65	45.2	453.90	443.90	10	6/1/2016
PZ-27D	Downgradient	Bedrock	33.08290514	-83.8093559	472.4	475.43	125.2	368.40	348.40	20	6/17/2016
PZ-27S	Downgradient	Saprolite	33.08292266	-83.80933923	473.1	475.80	45.2	438.00	428.00	10	5/26/2016
PZ-28I	Downgradient	Bedrock	33.08244868	-83.80821251	481.4	484.18	69.2	422.30	412.30	10	6/3/2016
PZ-29S	Downgradient	Saprolite	33.08210318	-83.80741616	488.5	491.31	45.2	453.40	443.40	10	5/26/2016
PZ-30I	Downgradient	Bedrock	33.08156107	-83.80591422	475.562	478.31	85.2	400.40	390.40	10	6/2/2016
PZ-31I	Downgradient	Bedrock	33.08191626	-83.80471544	463.963	466.89	75.2	398.80	388.80	10	6/2/2016
PZ-32D	Downgradient	Bedrock	33.08159927	-83.80382334	462.361	465.42	126.2	366.30	336.30	30	6/1/2016
PZ-32S	Downgradient	Saprolite/PWR	33.08159833	-83.80389169	462.27	465.06	55.2	417.30	407.30	10	6/1/2016
PZ-33I	Downgradient	Saprolite/PWR	33.08201411	-83.79943146	466.447	469.38	76.2	400.30	390.30	10	6/8/2016
PZ-34S	Downgradient	Saprolite/PWR	33.08224927	-83.7986981	440.826	443.67	45.2	405.80	395.80	10	6/4/2016
PZ-35I	Downgradient	Saprolite/PWR	33.08301374	-83.80924066	474.573	474.40	55.2	429.50	419.50	10	6/22/2016
PZ-36I	Downgradient	TWR/Bedrock	33.0797384	-83.80534295	478.86	481.52	95.2	393.90	383.90	10	6/5/2016

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

Well ID	Hydraulic Location	Geologic Unit Screened	Latitude	Longitude	Ground Surface Elevation (feet)	Top of Casing Elevation (feet msl)	Well Depth (feet bgs)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Screen Length (feet)	Date of Installation
ASH POND PIEZOMETERS - continued											
PZ-36S	Downgradient	Saprolite	33.07971111	-83.80536989	479.398	482.35	55.0	434.40	424.40	10	8/22/2018
PZ-37I	Downgradient	TWR/Bedrock	33.08183679	-83.80153755	479.478	482.18	71.2	418.50	408.50	10	6/2/2016
PZ-38I	Downgradient	Bedrock	33.08267369	-83.80828005	482.227	482.24	74.2	418.10	408.10	10	6/23/2016
PZ-39S	Downgradient	Saprolite	33.07909718	-83.80464616	471.791	474.58	76.0	405.79	395.79	10	8/21/2018
PZ-3S	Downgradient	Saprolite	33.06789221	-83.82080703	514.369	517.29	50	475.00	465.00	10	1/29/2015
PZ-40I	Downgradient	Bedrock	33.07025744	-83.80643134	510.089	512.55	83.0	437.09	427.09	10	8/15/2018
PZ-41S	Downgradient	Saprolite / TWR	33.06981255	-83.80581206	488.6	491.50	45.0	453.56	443.56	10	8/16/2018
PZ-42I	Downgradient	Bedrock	33.06767107	-83.81179732	500.5	503.18	96.0	414.45	404.45	10	8/21/2018
PZ-43S	Downgradient	Saprolite	33.06652661	-83.8111065	501.2	504.03	50.5	460.77	450.77	10	8/17/2018
PZ-44I	Downgradient	Bedrock	33.08280119	-83.81488357	507.9	510.36	114	403.69	393.69	10	9/5/2018
PZ-45D	Downgradient	Metagabbro	33.09322971	-83.8281633	509.7	512.33	165	399.74	344.74	55	3/9/2020
PZ-46D	Downgradient	Amphibolite / Hornblende Gneiss	33.08832034	-83.82598568	447.1	450.28	53.5	423.57	393.57	30	3/17/2020
PZ-47D	Downgradient	Granite	33.09684023	-83.81470823	406.8	410.01	26	396.66	381.66	15	3/11/2020
PZ-48S	Downgradient	Saprolite / TWR	33.09240559	-83.81011172	441.3	444.33	61	390.55	380.55	10	3/4/2020
PZ-49D	Downgradient	Diorite	33.08800314	-83.79434166	364.9	367.41	106	288.88	258.88	30	3/6/2020
PZ-49S	Downgradient	Residual Soil	33.08801621	-83.79437196	365.2	367.89	25	350.19	340.19	10	3/7/2020
PZ-50D	Upgradient	Metagabbro	33.03222172	-83.80211149	477.9	478.01	100	387.91	377.91	10	3/18/2020
PZ-51D	Upgradient	Biotite Gneiss	33.07658668	-83.8291917	543.2	546.04	126	427.17	417.17	10	3/8/2020
PZ-52	Downgradient	Saprolite	33.08640137	-83.81717935	519.4	521.84	77	452.43	442.43	10	3/17/2020
PZ-53	Downgradient	Saprolite	33.08394269	-83.8133014	513.6	516.64	45	478.61	468.61	10	3/19/2020
PZ-54	Downgradient	Saprolite	33.08276482	-83.80761959	490.2	492.96	45	455.17	445.17	10	3/19/2020
PZ-55	Downgradient	Saprolite	33.0838999	-83.79920035	444.2	447.21	36	418.15	408.15	10	3/20/2020
PZ-56	Downgradient	Biotite Gneiss	33.08827939	-83.79943044	430.8	433.68	46	393.10	385.10	8	3/19/2020
PZ-57	Downgradient	Biotite Gneiss	33.08796818	-83.80496443	436.4	439.51	59	387.45	377.45	10	3/19/2020
PZ-58	Downgradient	Saprolite	33.0876965	-83.81200107	489.3	492.21	46	453.25	443.25	10	3/16/2020
PZ-59D	Downgradient	Biotite Gneiss and Amphibolite	33.09297923	-83.80394129	382.9	385.86	69	328.86	313.86	15	3/27/2020
PZ-59S	Downgradient	Saprolite	33.09293469	-83.80397571	382.8	385.93	24	368.83	358.83	10	3/20/2020
PZ-60D	Downgradient	Biotite Gneiss and Amphibolite	33.09072228	-83.80207655	386.4	389.34	100	317.03	287.03	30	3/29/2020
PZ-60S	Downgradient	Saprolite	33.090694	-83.80207431	386.4	389.88	20	376.36	366.36	10	3/31/2020

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

Well ID	Hydraulic Location	Geologic Unit Screened	Latitude	Longitude	Ground Surface Elevation (feet)	Top of Casing Elevation (feet msl)	Well Depth (feet bgs)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Screen Length (feet)	Date of Installation
ASH POND PIEZOMETERS - continued											
PZ-61	Downgradient	Saprolite, Biotite Gneiss and Metagranite	33.08557017	-83.80115566	436.8	439.27	50	397.34	387.34	10	4/11/2020
PZ-62	Downgradient	Saprolite	33.08513385	-83.80885081	498.3	501.32	52	456.00	446.00	10	4/9/2020
PZ-63	Downgradient	Biotite Gneiss	33.08950995	-83.81573718	498.9	501.54	40	468.87	458.87	10	4/12/2020
PZ-64	Downgradient	Biotite Gneiss	33.08885322	-83.80808779	476.0	479.52	69	416.99	406.99	10	4/8/2020
PZ-65	Downgradient	Saprolite	33.08392854	-83.80376913	429.6	432.42	30	409.57	399.57	10	4/11/2020
PZ-66D	Downgradient	Biotite Gneiss	33.09135724	-83.79950884	424.4	427.60	60	378.39	364.39	open borehole	4/2/2020
PZ-66	Downgradient	Biotite Gneiss and Amphibolite	33.0914103	-83.79922285	418.4	421.24	266	349.38	152.38	15	5/8/2020
PZ-67D	Downgradient	Saprolite	33.09444381	-83.80200723	424.7	428.48	40	394.96	384.96	open borehole	4/1/2020
PZ-67	Downgradient	Biotite Gneiss and Amphibolite	33.09449189	-83.80204133	423.2	425.94	301	340.22	122.22	10	4/25/2020
PZ-68	Downgradient	Saprolite / TWR	33.09267242	-83.80553278	392.1	395.55	20	382.14	372.14	10	4/15/2020
LPZ-01	Upgradient	PWR/Bedrock	33.07044703	-83.83392205	550.0	553.29	64.0	495.97	485.97	10	11/10/2015
LPZ-02	Upgradient	Saprolite	33.07861662	-83.83555064	511.1	514.52	20.0	501.07	491.07	10	11/20/2015
LPZ-03	Upgradient	Saprolite	33.07287074	-83.83344344	512.2	515.45	35.0	487.15	477.15	10	11/18/2015
LPZ-04	Upgradient	Saprolite	33.06760372	-83.83859982	458.1	461.24	28.0	440.11	430.11	10	11/19/2015
LPZ-05	Upgradient	Saprolite	33.0658394	-83.83007014	521.5	524.51	52.1	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.

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

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Monitoring Well
		February 2020	March 2020	
Purpose of Sampling Event		Annual Appendix IV Scan	Detection / Assessment	
ASH POND (AP-1)				
SGWA-1	Upgradient	Scan 3	A06	Assessment
SGWA-2	Upgradient	Scan 3	A06	Assessment
SGWA-3	Upgradient	Scan 3	A06	Assessment
SGWA-4	Upgradient	Scan 3	A06	Assessment
SGWA-5	Upgradient	Scan 3	A06	Assessment
SGWC-6	Downgradient	Scan 3	A06	Assessment
SGWC-7	Downgradient	Scan 3	A06	Assessment
SGWC-8	Downgradient	Scan 3	A06	Assessment
SGWC-9	Downgradient	Scan 3	A06	Assessment
SGWC-10	Downgradient	Scan 3	A06	Assessment
SGWC-11	Downgradient	Scan 3	A06	Assessment
SGWC-12	Downgradient	Scan 3	A06	Assessment
SGWC-13	Downgradient	Scan 3	A06	Assessment
SGWC-14	Downgradient	Scan 3	A06	Assessment
SGWC-15	Downgradient	Scan 3	A06	Assessment
SGWC-16	Downgradient	Scan 3	A06	Assessment
SGWC-17	Downgradient	Scan 3	A06	Assessment
SGWC-18	Downgradient	Scan 3	A06	Assessment
SGWC-19	Downgradient	Scan 3	A06	Assessment
SGWC-20	Downgradient	Scan 3	A06	Assessment
SGWC-21	Downgradient	Scan 3	A06	Assessment
SGWC-22	Downgradient	Scan 3	A06	Assessment
SGWC-23	Downgradient	Scan 3	A06	Assessment
SGWA-24	Upgradient	Scan 3	A06	Assessment
SGWA-25	Upgradient	Scan 3	A06	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 (certified 7/17/2020)	GROUNDWATER ELEVATION	
		3/17/2020	5/6/2020
ASH POND			
SGWA-1	546.83	510.29	512.08
SGWA-2	546.94	511.98	513.25
SGWA-3	545.83	516.09	516.44
SGWA-4	547.66	495.78	497.61
SGWA-5	508.48	494.96	495.63
SGWC-6	510.49	496.22	496.62
SGWC-7	506.40	491.95	493.07
SGWC-8	514.28	492.09	493.27
SGWC-9	510.62	491.14	491.46
SGWC-10	509.41	493.13	492.61
SGWC-11	511.47	493.81	493.18
SGWC-12	500.53	486.35	486.40
SGWC-13	482.71	478.48	478.18
SGWC-14	476.72	466.34	466.29
SGWC-15	482.75	458.41	457.44
SGWC-16	460.31	441.09	439.06
SGWC-17	418.00	417.10	417.11
SGWC-18	513.29	478.31	478.73
SGWC-19	478.94	464.39	464.03
SGWC-20	504.60	492.93	492.29
SGWC-21	487.67	flowing	487.67
SGWC-22	518.02	495.42	494.56
SGWC-23	523.10	495.95	496.59
SGWA-24	492.38	490.84	478.98
SGWA-25	526.49	500.26	501.18
PIEZOMETERS			
PZ-2I	517.563	494.75	493.87
PZ-3	517.292	493.01	492.61
PZ-5I	523.256	487.56	487.36
PZ-6S	531.537	495.58	496.16

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

Well ID	Top of Casing Elevation (certified 7/17/2020)	GROUNDWATER ELEVATION	
		3/17/2020	5/6/2020
PIEZOMETERS - continued			
PZ-9I	526.57	500.95	501.24
PZ-10S	517.528	494.36	495.74
PZ-11S	529.314	491.12	492.21
PZ-12S	517.685	489.77	490.30
PZ-13S	520.507	491.75	492.33
PZ-14S	512.129	490.47	490.41
PZ-14I	512.89	490.48	490.19
PZ-15S	500.60	480.81	481.81
PZ-17I	483.03	458.44	457.76
PZ-19I	417.76	415.61	415.29
PZ-19S	417.80	414.74	414.49
PZ-20I	417.41	415.07	415.16
PZ-21S	473.736	466.91	466.63
PZ-25S	528.24	492.43	492.92
PZ-25I	528.39	493.00	492.84
PZ-26S	491.65	476.95	476.77
PZ-27S	475.80	472.07	471.65
PZ-27D	475.43	flowing	475.43
PZ-28I	484.18	467.88	467.50
PZ-29S	491.31	462.48	462.94
PZ-30I	478.31	451.02	452.18
PZ-31I	466.89	440.16	441.28
PZ-32S	465.06	441.88	443.57
PZ-32D	465.42	439.29	440.67
PZ-33I	469.38	426.08	428.23
PZ-34S	443.67	428.54	428.98
PZ-35I	474.40	470.66	471.58
PZ-36S	482.35	456.09	456.04
PZ-36I	481.52	452.64	452.53
PZ-37I	482.18	431.75	433.27

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

Well ID	Top of Casing Elevation (certified 7/17/2020)	GROUNDWATER ELEVATION	
		3/17/2020	5/6/2020
PIEZOMETERS - continued			
PZ-38I	482.24	467.93	468.16
PZ-39S	474.58	443.95	444.58
PZ-40I	512.55	479.33	479.78
PZ-41S	491.50	464.04	465.16
PZ-42I	503.18	494.43	494.03
PZ-43S	504.03	483.97	483.72
PZ-44I	510.36	493.70	493.13
PZ-45D	512.33	NM	492.79
PZ-46D	450.28	NM	439.88
PZ-47D	410.01	NM	400.33
PZ-48S	444.33	NM	414.48
PZ-49S	367.89	NM	361.28
PZ-49D	367.41	NM	362.81
PZ-50D	478.01	NM	449.96
PZ-51D	546.04	NM	512.52
PZ-52	521.84	NM	489.69
PZ-53	516.64	NM	490.47
PZ-54	492.96	NM	464.14
PZ-55	447.21	NM	427.71
PZ-56	433.68	NM	396.94
PZ-57	439.51	NM	406.44
PZ-58	492.21	NM	453.20
PZ-59S	385.93	NM	381.53
PZ-59D	385.86	NM	381.52
PZ-60S	389.88	NM	382.79
PZ-60D	389.34	NM	385.76
PZ-61	439.27	NM	424.32
PZ-62	501.32	NM	463.14
PZ-63	501.54	NM	485.28

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

Well ID	Top of Casing Elevation (certified 7/17/2020)	GROUNDWATER ELEVATION	
		3/17/2020	5/6/2020
PIEZOMETERS - continued			
PZ-64	479.52	NM	436.66
PZ-65	432.42	NM	417.20
PZ-66	421.24	NM	387.64
PZ-66D	427.60	NM	NM
PZ-67	425.94	NM	402.39
PZ-67D	428.48	NM	388.16
PZ-68	395.55	NM	389.80
LPZ-01	553.288	493.97	495.57
LPZ-02	514.515	510.85	511.52
LPZ-03	515.454	509.34	509.49
LPZ-04	461.236	449.12	449.57
LPZ-05	524.511	478.40	478.87

Notes:

Feet MSL = feet above mean sea level

NM = Not Measured

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

Flow Paths	Groundwater Elevation (feet msl)	ΔH (feet) ²	ΔL (feet) ³	Hydraulic Gradient ($\Delta h/\Delta l$)	Average Hydraulic Conductivity, K (feet per day) ⁵	Assumed Effective Porosity (n_e)	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
AP-1 March 2020								
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. ΔH = Change in groundwater elevation
2. ΔL = Distance along flow path
3. $I = \Delta H / \Delta L$
4. Velocity = $(I * K)/n_e$
5. Hydraulic conductivity 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)	ΔH (feet) ²	ΔL (feet) ³	Hydraulic Gradient ($\Delta h/\Delta l$)	Average Hydraulic Conductivity, K (feet per day) ⁵	Assumed Effective Porosity (n_e)	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
AP-1 May 2020								
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. ΔH = Change in groundwater elevation
2. ΔL = Distance along flow path
3. $I = \Delta H / \Delta L$
4. Velocity = $(I * K)/n_e$
5. Hydraulic conductivity 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	SGWC-11	SGWC-12	SGWC-13
		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	2/18/2020	2/19/2020	2/19/2020	2/18/2020	2/19/2020
Appendix III																
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	<0.026	0.064 J	0.027 J
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	5.09	6.07	5.94
SULFATE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Appendix IV																
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	<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	<0.00031	0.00032 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	0.044	0.053	0.033
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	<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	<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	<0.0015	<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	0.018	0.0027	0.0018
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	<0.026	0.064 J	0.027 J
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	<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	0.0052	<0.0034	<0.0034	<0.0034	<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	<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	<0.00061	<0.00061	<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	0.203 U	0.166 U	0.218 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	<0.0015	<0.0015
THALLIUM, TOTAL	mg/L	<0.00015	<0.00015	0.00033 J	0.00049 J	<0.00015	<0.00015	<0.00015	<0.00015	0.00028 J	0.00022 J	0.00020 J	0.00027 J	0.00075 J	0.00016 J	0.00034 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-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
		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
Appendix III											
BORON, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--
CALCIUM, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--
CHLORIDE, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--
FLUORIDE, TOTAL	mg/L	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.	5.75	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	--	--	--	--	--	--	--	--	--	--
Appendix IV											
ANTIMONY, TOTAL	mg/L	<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	0.001	<0.00031	<0.00031	0.0031	<0.00031	0.00032 J	<0.00031	0.00034 J	<0.00031
BARIUM, TOTAL	mg/L	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	0.00045 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	0.00030 J	<0.00022	<0.00022	0.00032 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
CHROMIUM, TOTAL	mg/L	<0.0015	0.038	0.014	0.0045	0.011	0.017	<0.0015	<0.0015	0.0015 J	<0.0015
COBALT, TOTAL	mg/L	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 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	0.00025 J	<0.00013	0.00018 J	<0.00013
LITHIUM, TOTAL	mg/L	<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	0.0002	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
RADIUM (226 + 228)	pCi/L	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	0.0024 J	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
THALLIUM, TOTAL	mg/L	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.
9. 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	SGWC-12	SGWC-13
		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	3/26/2020	3/27/2020
Appendix III																
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	<0.050	0.49
CALCIUM, TOTAL	mg/L	1.8	11	5.3	18	1.7	14	8.8	11	21	48	55	2.9	2.0	22	18
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	9.4	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	0.081 J	0.045 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	6.10	5.89
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	44	81
TOTAL DISSOLVED SOLIDS	mg/L	25	100	52	140	30	110	98	94	180	360	540	59	38	200	200
Appendix IV																
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	0.00032 J	<0.0010
BARIIUM, 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	0.051	0.034
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	<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	<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	<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	0.0024 J	0.0020 J
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	0.081 J	0.045 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	<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	<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	<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	<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	0.604	0.235 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	<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	<0.00050	<0.00050

NOTES:

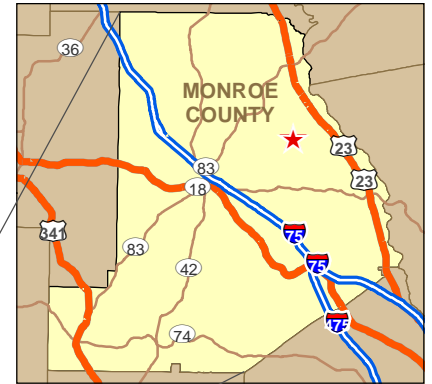
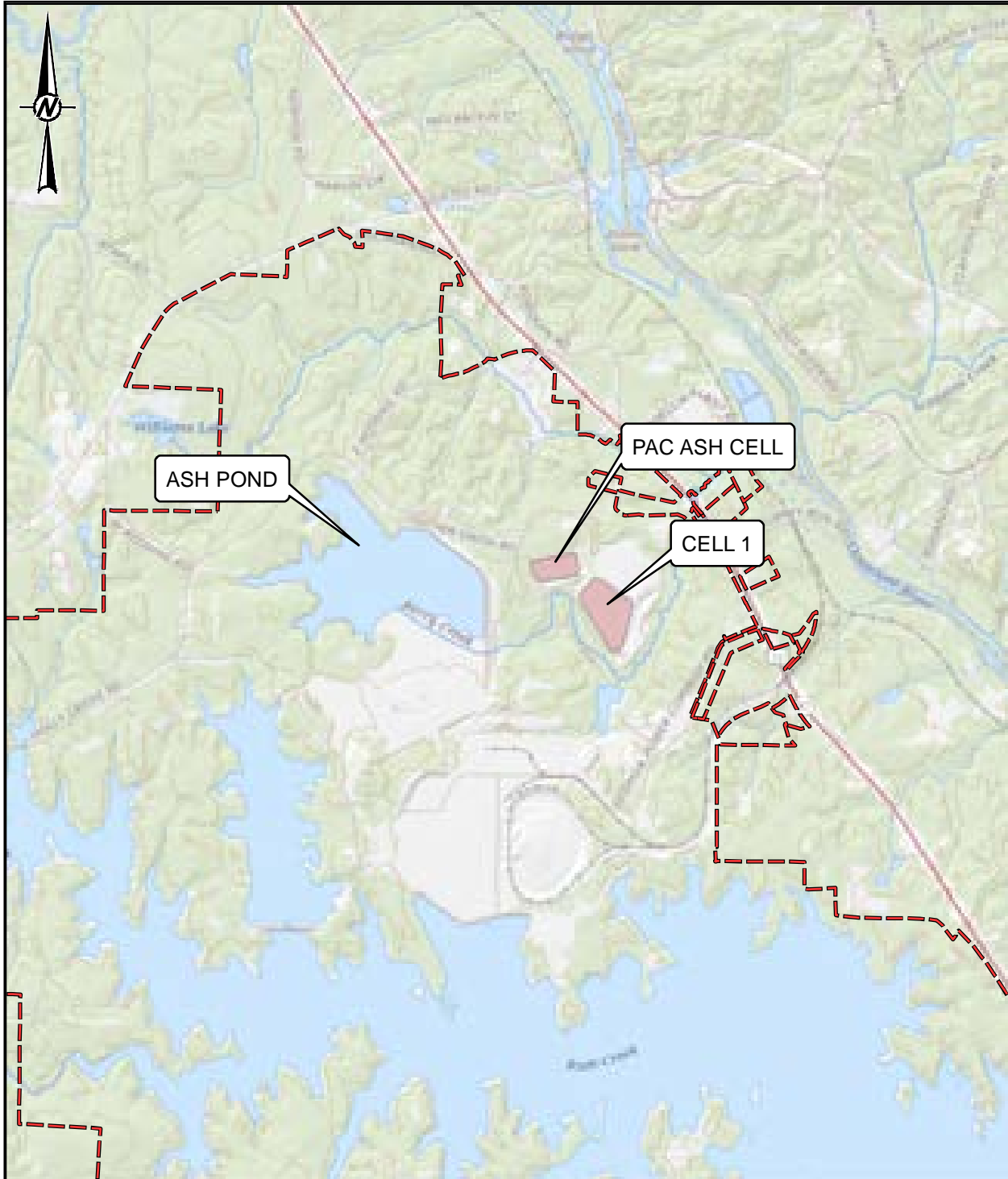
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was 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-14	SGWC-15	SGWC-16	SGWC-17	SGWC-18	SGWC-19	SGWC-20	SGWC-21	SGWC-22	SGWC-23
		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
Appendix III											
BORON, TOTAL	mg/L	1.5	1.4	0.59	0.37	6.0	1.7	1.9	0.83	0.34	0.55
CALCIUM, TOTAL	mg/L	41	17	1.5	58	81	46	13	36	31	22
CHLORIDE, TOTAL	mg/L	11	10	8.5	7.8	12	7.7	10	11	10	9.1
FLUORIDE, TOTAL	mg/L	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.	5.74	4.51	5.17	6.21	4.74	5.51	4.19	6.12	5.62	6.00
SULFATE, TOTAL	mg/L	180	190	35	190	1000	250	220	120	100	71
TOTAL DISSOLVED SOLIDS	mg/L	330	330	99	430	1600	390	330	330	250	210
Appendix IV											
ANTIMONY, TOTAL	mg/L	--	--	--	--	--	--	--	--	--	--
ARSENIC, TOTAL	mg/L	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	0.049	0.028	0.027	0.024	0.020	0.032	0.024	0.10	0.081	0.065
BERYLLIUM, TOTAL	mg/L	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	0.00057 J	0.00042 J	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
CHROMIUM, TOTAL	mg/L	0.0019 J	0.034	0.011	0.0079	0.0096	0.015	<0.0020	<0.0020	<0.0020	<0.0020
COBALT, TOTAL	mg/L	0.0093	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	0.041 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	0.00066 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	0.0038 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	0.00011 J	<0.00020	<0.00020	0.00019 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
MOLYBDENUM, TOTAL	mg/L	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	0.206 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	0.0019 J	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
THALLIUM, TOTAL	mg/L	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.



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



CLIENT



PROJECT
2020 1ST SEMI-ANNUAL GROUNDWATER MONITORING
PLANT SCHERER

TITLE
SITE LOCATION MAP

CONSULTANT



YYYY-MM-DD 2020-01-10

PREPARED DJC

DESIGN DLP

REVIEW DLP

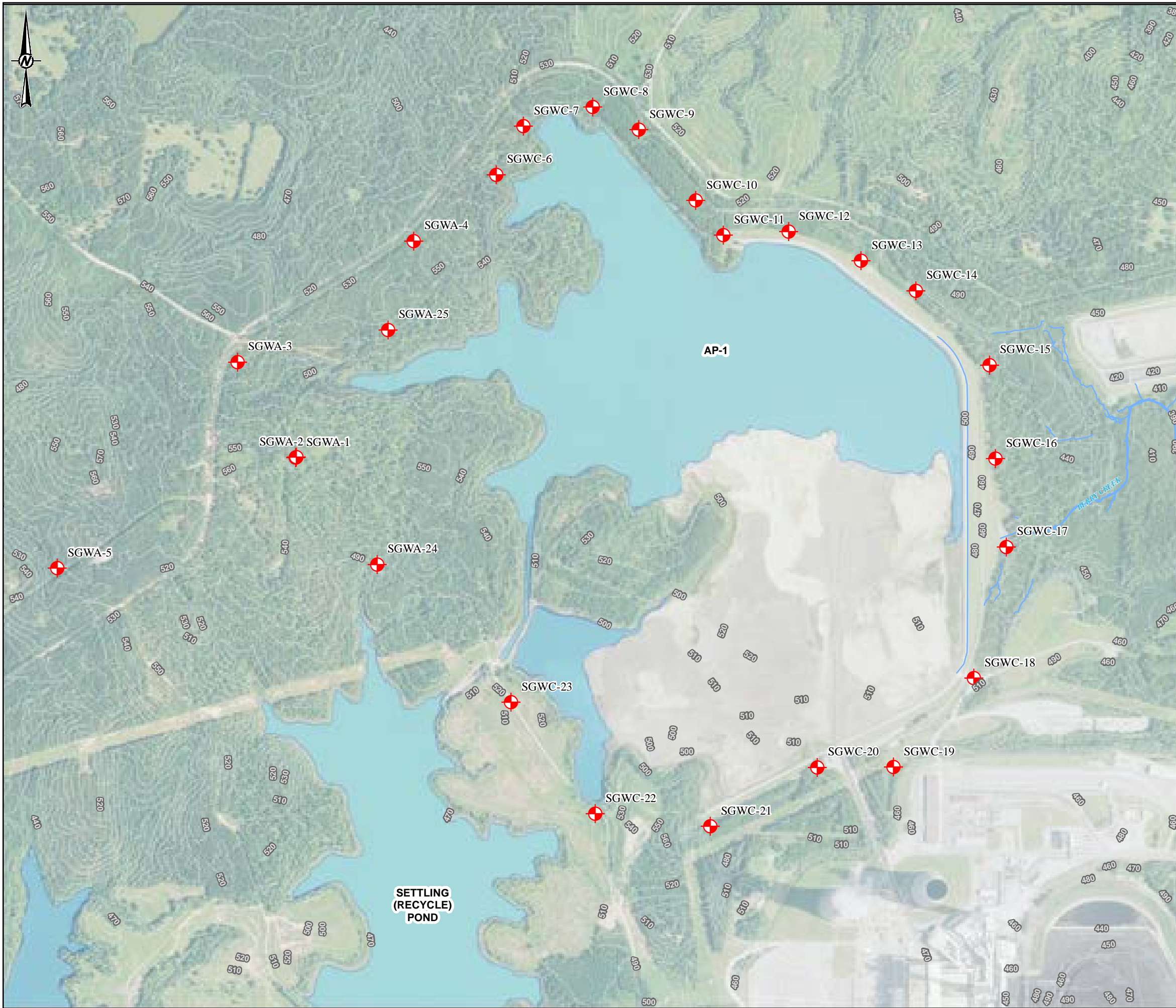
APPROVED RPK

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
GROUNDWATER MONITORING PROGRAM

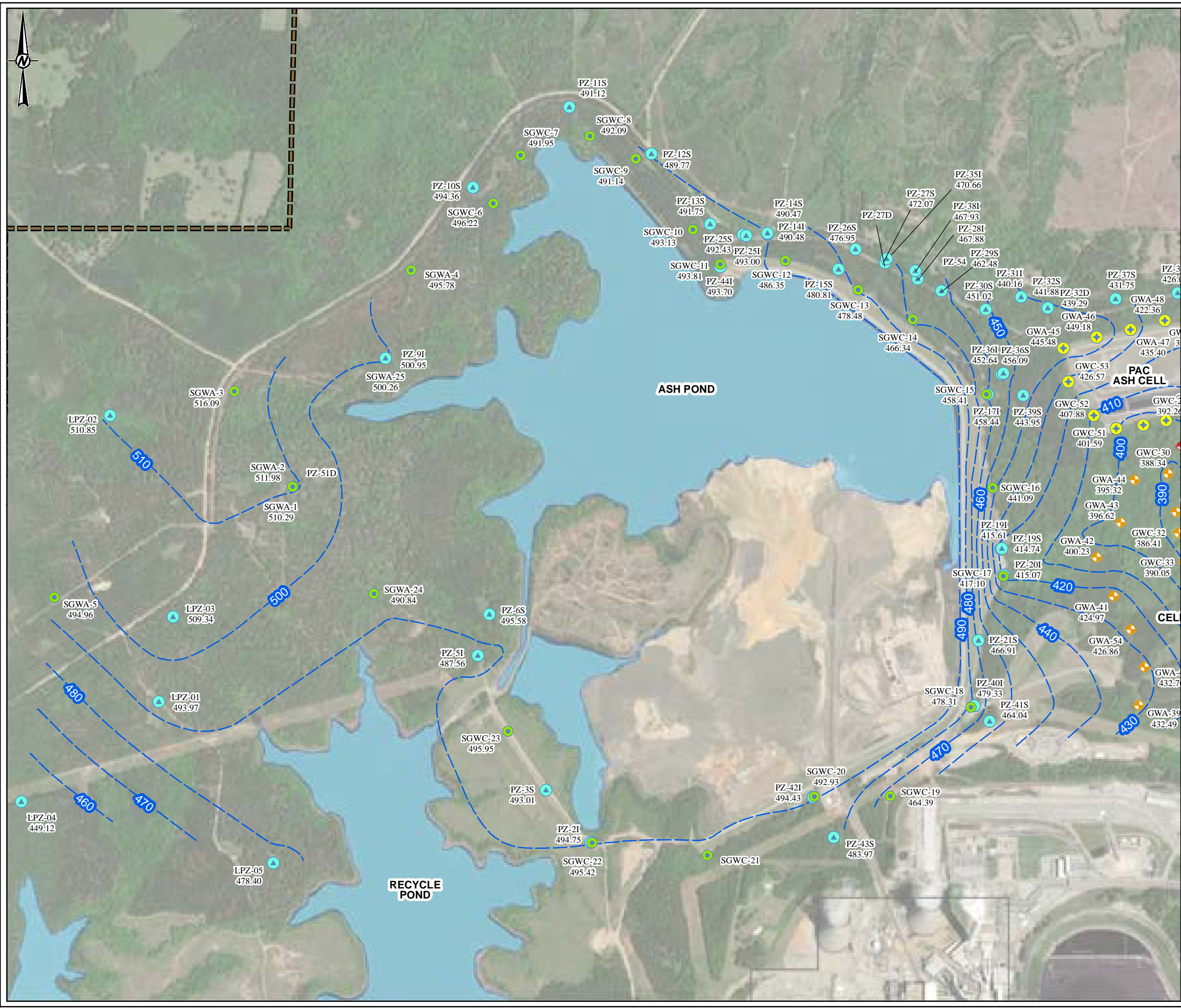
TITLE
**SITE PLAN AND MONITORING WELL
LOCATION MAP**

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 **A1**

Path: H:\166k-Projects\1662350-Southern Company Services\gumal 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

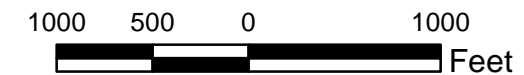


LEGEND

- 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.



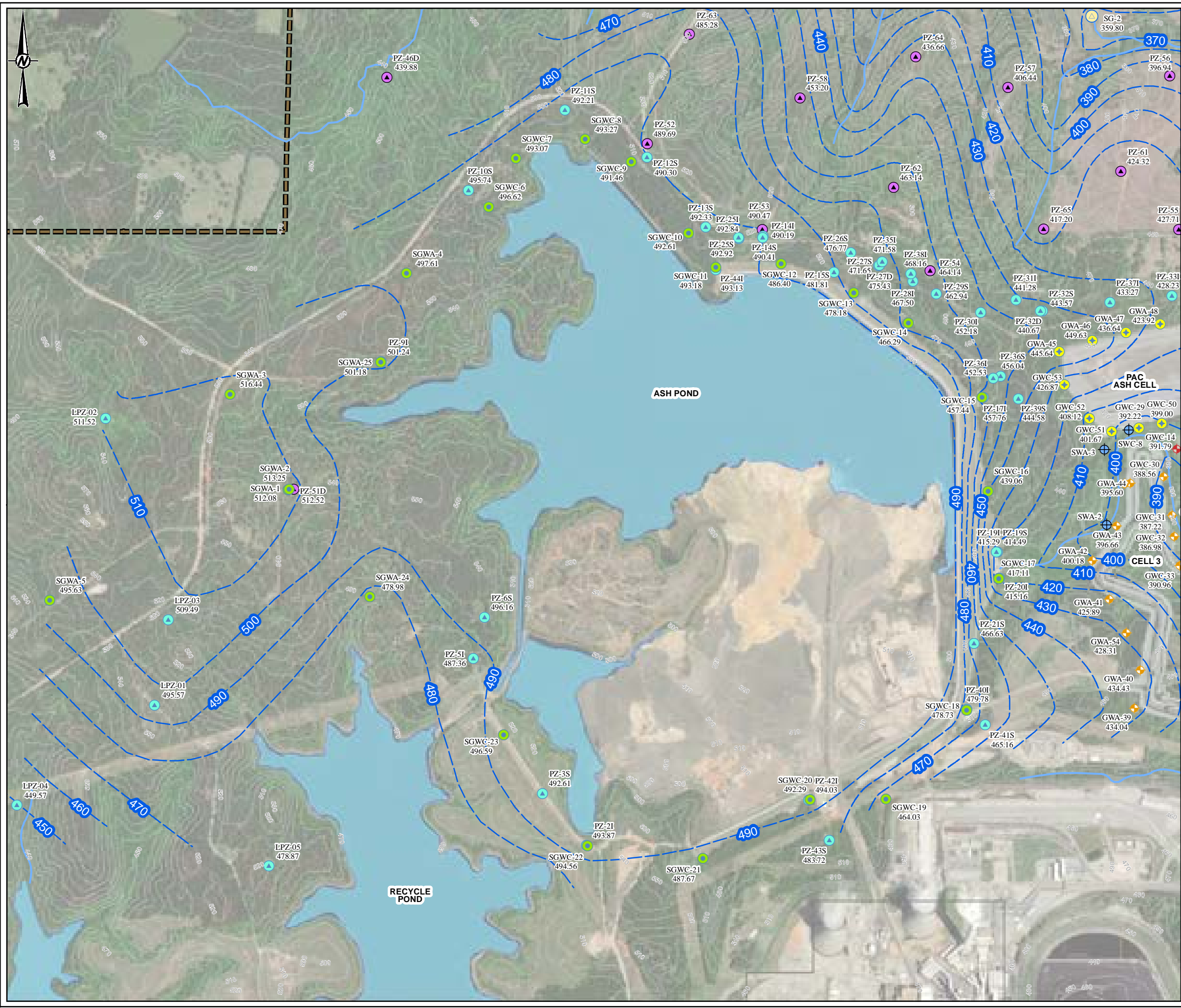
CLIENT
GEORGIA POWER COMPANY
 PLANT SCHERER

PROJECT
GROUNDWATER MONITORING PROGRAM
 SEMI-ANNUAL COMPLIANCE EVENT

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

CONSULTANT	YYYY-MM-DD	2020-08-20
GOLDER	PREPARED	DJC
	DESIGN	DH
	REVIEW	
	APPROVED	

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LEGEND

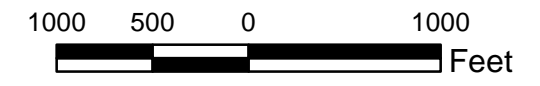
- NORTH PROPERTY PIEZOMETER
- SCHERER ASH POND-CCR MONITORING WELL
- CELL 1 LANDFILL MONITORING WELL
- PAC ASH LANDFILL MONITORING WELL
- CELL 3 MONITORING WELL
- PIEZOMETER
- SURFACE WATER SAMPLING LOCATION
- STREAM GAUGE LOCATION
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
- PROPERTY BOUNDARY
- PONDS

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	YYYY-MM-DD	2020-05-19
GOLDER	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

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

Plink: C:\TEMP\CAD FILES\MAY 11\19201394884\Plant Scherer\GIS\MapD_2010.mxd SITE PLAN-SURVEY\ED\201394884D010-GIS.mxd

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

APPENDIX A

**ANALYTICAL DATA SUMMARY, ANALYTICAL
RESULTS, FIELD DATA FORMS & DATA
VALIDATION SUMMARIES**

APPENDIX A

**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

LINKS

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results through
Total Access

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The
Expert**

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www.testamericainc.com

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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Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	28
QC Sample Results	62
QC Association Summary	80
Chain of Custody	90
Receipt Checklists	104

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		1			307848	02/22/20 12:05	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307719	02/20/20 15:35	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307889	02/22/20 14:59	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	308138	02/25/20 15:56	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			308273	02/26/20 16:41	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.79 mL	1.0 g	460927	02/19/20 07:14	RBR	TAL SL
Total/NA	Analysis	9315		1			464171	03/12/20 09:47	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.79 mL	1.0 g	460931	02/19/20 07:43	RBR	TAL SL
Total/NA	Analysis	9320		1			463181	03/05/20 18:19	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			464187	03/13/20 07:22	SMP	TAL SL
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			308823	02/13/20 15:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

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		1			308729	03/03/20 15:34	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 14:11	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 13:59	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			999.03 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			999.03 mL	1.0 g	461608	02/24/20 12:00	MNH	TAL SL
Total/NA	Analysis	9320		1			463812	03/11/20 17:19	AJD	TAL SL
Instrument ID: GFPCPURPLE										
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 09:55	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: 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 Instrument ID: CHICS2000		1			308729	03/03/20 17:49	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 14:38	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 14:33	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			1000.49 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			1000.49 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 17:26	CJQ	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 10:30	FDS	TAL PIT

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 Instrument ID: CHICS2000		1			308729	03/03/20 18:04	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 14:40	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 14:34	NAM	TAL PIT
Total/NA	Prep	PrecSep-21			999.86 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			999.86 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 17:26	CJQ	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 15:30	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-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										

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										

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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-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

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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-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		1			308868	03/04/20 17:12	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 14:25	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 10:18	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 13:51	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.09 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:33	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.09 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 10:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

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		1			308868	03/04/20 10:59	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 14:27	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 10:20	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 13:54	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Prep	PrecSep-21			1000.18 mL	1.0 g	461863	02/26/20 08:43	MNH	TAL SL
Total/NA	Analysis	9315		1			464940	03/19/20 05:33	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.18 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										

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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										

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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-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

Eurofins TestAmerica, Pittsburgh

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										

Eurofins TestAmerica, Pittsburgh

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										

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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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

Eurofins TestAmerica, Pittsburgh

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
Barium	0.044		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
Cobalt	0.018		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
Thallium	0.00016	J	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 Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
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
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	0.150	U	0.245	0.245	1.00	0.412	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	93.5		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 Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Arsenic	0.00034	J	0.0010	0.00031	mg/L		02/28/20 10:39	02/29/20 14:45	1
Barium	0.085		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
Chromium	0.0015	J	0.0020	0.0015	mg/L		02/28/20 10:39	02/29/20 14:45	1
Cobalt	0.0018	J	0.0025	0.00013	mg/L		02/28/20 10:39	02/29/20 14:45	1
Lead	0.00018	J	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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Barium	0.042		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
Cobalt	0.018		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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Barium	0.010		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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Barium	0.029		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
Chromium	0.014		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:42	1
Cobalt	0.0047		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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Barium	0.034		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
Chromium	0.017		0.0020	0.0015	mg/L		03/02/20 12:52	03/04/20 14:47	1
Cobalt	0.00015 J		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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Arsenic	0.0031		0.0010	0.00031	mg/L		03/03/20 13:06	03/05/20 13:26	1
Barium	0.023		0.010	0.0016	mg/L		03/03/20 13:06	03/05/20 13:26	1
Beryllium	0.00049	J	0.0025	0.00018	mg/L		03/03/20 13:06	03/05/20 13:26	1
Cadmium	0.00032	J	0.0025	0.00022	mg/L		03/03/20 13:06	03/05/20 13:26	1
Chromium	0.011		0.0020	0.0015	mg/L		03/03/20 13:06	03/05/20 13:26	1
Cobalt	0.14		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
Lithium	0.0045	J	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
Selenium	0.0024	J	0.0050	0.0015	mg/L		03/03/20 13:06	03/05/20 13:26	1
Thallium	0.00066	J	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
Mercury	0.00022		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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Arsenic	0.0035		0.0010	0.00031	mg/L		03/03/20 13:06	03/05/20 13:28	1
Barium	0.023		0.010	0.0016	mg/L		03/03/20 13:06	03/05/20 13:28	1
Beryllium	0.00040	J	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
Chromium	0.011		0.0020	0.0015	mg/L		03/03/20 13:06	03/05/20 13:28	1
Cobalt	0.14		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
Lithium	0.0047	J	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
Selenium	0.0024	J	0.0050	0.0015	mg/L		03/03/20 13:06	03/05/20 13:28	1
Thallium	0.00048	J	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
Mercury	0.00023		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 Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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 Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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 Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
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
Thallium	0.00016	J	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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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	

Eurofins TestAmerica, Pittsburgh

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

Eurofins TestAmerica, Pittsburgh

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 MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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	%Rec. Limits

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	%Rec. Limits

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	%Rec. Limits	RPD	Limit

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 MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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	%Rec. Limits

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	%Rec. Limits

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	%Rec. Limits	RPD	Limit

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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
%Rec. Limits

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
%Rec. Limits

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
%Rec. RPD Limit

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
%Rec. Limits

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
%Rec. RPD Limit

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		
Carrier	LCS %Yield	LCS Qualifier	Limits								
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	
Carrier	MS %Yield	MS Qualifier	Limits									
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	
Carrier	MSD %Yield	MSD Qualifier	Limits											
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
Carrier	MB %Yield	MB Qualifier	Limits								
Ba Carrier	103		40 - 110								
								Prepared	Analyzed	Dil Fac	
								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	
								%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 MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	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 MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
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 LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	100		40 - 110						

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 LCSD		Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	101		40 - 110								

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 MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	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 MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
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		

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		
									75	125	
Radium-228	9.05	7.797		0.939	1.00	0.384	pCi/L	86	75	125	
Carrier	%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	
											45	150
Radium-228	-0.0178	U	9.04	7.703		0.936	1.00	0.394	pCi/L	85	45	150
Carrier	%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	Limit
											45	150	0.37	1
Radium-228	-0.0178	U	9.04	7.021		0.885	1.00	0.359	pCi/L	78	45	150	0.37	1
Carrier	%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
								02/24/20 07:36	03/11/20 17:38	03/11/20 17:38	03/11/20 17:38	
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	03/11/20 17:38	1	
Carrier	%Yield	MB Qualifier	Limits									
Ba Carrier	103		40 - 110									
Y Carrier	81.9		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: 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
Carrier		LCSD %Yield	LCSD Qualifier	Limits								
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
Carrier		MB %Yield	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
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	
Carrier		LCS %Yield	LCS Qualifier	Limits						
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
Carrier		LCSD %Yield	LCSD Qualifier	Limits								
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	

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: 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	

Eurofins TestAmerica, Pittsburgh

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
 301 Alpha Drive
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881-Atlanta

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.

Regulatory Program: CCR RCRA SDWA Other

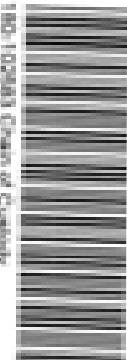



Client Contact Southern Company 211 Ralph McGill Blvd SE, #10185 Atlanta, GA 30338 (404) 528-7238 Phone FAX		Project Manager: Dawn Peffl Tel/Fax: 248-528-9445		Site Contact: Karim Mirkani Lab Contact: Veronica Bortot		Date: 2/12/2020 Carrier:		COC No: ___ of ___ COCs			
Project Name: GPC Plant Scherer Site: WP-1 P.O.#		Analysis Turnaround Time <input type="checkbox"/> 0-24 HOURS <input type="checkbox"/> 2-7 DAYS <input type="checkbox"/> 7-30 DAYS <input type="checkbox"/> 30+ DAYS		Sample Type <input type="checkbox"/> Drinking Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Surface Water <input type="checkbox"/> Other		Sampler: For Lab Use Only: Make-In Client: Lab Sampling:		Job / SDC No.:			
Sample Identification	Sample Date	Sample Time	Sample Type (Drinking, Wastewater, Surface Water, Other)	Matrix	# of Cont.	Field Sample (Y/N)	Field Preserved (Y/N)	App IV Metals	Barium / Strontium / Rb	Fluoride	Sample Specific Notes:
SONA-1	2/12/2020	1320	GW	GW	4			X	X	X	pH 6.08
SONA-2	2/12/2020	1410	GW	GW	4			X	X	X	pH 6.58
SONA-24	2/12/2020	1510	GW	GW	4			X	X	X	pH 6.24
Preservation/Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=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"/> Disposed by Lab <input type="checkbox"/> Retire 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"/> Nonhazard <input type="checkbox"/> Regulated <input type="checkbox"/> Not Listed <input type="checkbox"/> Hazard <input type="checkbox"/> Unknown						Special Instructions/OC Requirements & Comments: *App IV 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) Obs'd:		Con'ts		Therm ID No.:			
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: 2/12/20 15:15		Received by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: 2/12/20 15:15	
Relinquished by: <i>[Signature]</i>		Company: 2-17-20		Date/Time: 1/25		Received by: <i>[Signature]</i>		Company: <i>[Signature]</i>		Date/Time: 2/10/20 10:15	
Relinquished by: <i>[Signature]</i>		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	



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 Pittsburgh, PA 15229-2907
 phone 412.943.7000 fax 412.943.2400

Regulatory Program: DCL RCRA SDWA Other

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Dawn Prael			Site Contact: Karla Wilkins			Date: 2/19/20		COC No: _____ of _____ COCs			
Southern Company 3471 Ralph McGill Blvd SE B10180 Atlanta, GA, 30308 (404) 506-7229 Phone FAX		Tel/Fax: 348-834-9446			Lab Contact: Veronica Bortol			Carrier:		Sampler:			
Project Name: GPC Plant Scherer Site: AP-1 P-04		Analysis Turnaround Time <input type="checkbox"/> Outdoor Days <input type="checkbox"/> Working Days TAT is affected from Order _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day			1-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31 Wetland (N/A) / Wetland (N/A) / Wetland (N/A) Perform MBL / MBL activity MBL / MBL activity MBL / MBL activity MBL / MBL activity			For Lab Use Only: Make-up Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SOG No: _____		180-102993 Chain of Custody  Sample Specific Notes: pH: 5.78 pH: 6.28 pH: 6.33 pH: 6.35 pH: 6.39 pH: 6.26 pH: 4.30 pH: 6.26 pH: 5.59 pH: 5.95			
Sample Identification	Sample Date	Sample Time	Sample Type (M/Comp/S/Cont)	Matrix				# of Cont.	4			4	1
SOMA-3	2/18/2020	855	☉	GM	3	X	X	X					
SOMA-4	2/18/2020	1129	☉	GM	3	X	X	X					
SOMC-6	2/18/2020	1342	☉	GM	3	X	X	X					
SOMC-7	2/18/2020	1408	☉	GM	3	X	X	X					
SOMC-8	2/18/2020	1527	☉	GM	3	X	X	X					
SOMC-11	2/18/2020	1600	☉	GM	3	X	X	X					
SOMC-25	2/18/2020	1500	☉	GM	3	X	X	X					
SOMC-21	2/18/2020	1055	☉	GM	3	X	X	X					
SOMC-23	2/18/2020	1055	☉	GM	3	X	X	X					
SOMC-23	2/18/2020	1210	☉	GM	3	X	X	X					
FB-1 (AP)	2/18/2020	1600	☉	GM	3	X	X	X					
FD-1 (AP)	2/18/2020	--	☉	GM	3	X	X	X					
Preservation/Conserv: 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"/> Pesticide <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Shipped to Lab <input type="checkbox"/> Continue for Months							
Special Instructions/OC Requirements & Comments: *Applicable 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): Deviat _____		Conts _____		Therm ID No. _____ 8:17	
Returned by: 				Company: <i>Golden</i> Carrier name: <i>Champion Now</i> Date/Time: <i>2/19/20 10:50</i>				Date/Time: <i>2/19/20</i> Signature: 		Date/Time: <i>2/19/20</i> Signature: <i>Christina</i>		Date/Time: <i>2/19/20 9:00</i> Signature: 	

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Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program: HSW RCRA SDWA Dioxin

Client Contact Southern Company One Reger Mill Blvd SE B10185 Atlanta, GA 30308 404/506-7228 Phone FAX Project Name: GPC Plant Schem Site: AP-1 P-C#		Project Manager: Dawn Pfeil Tel/Fax: 248-638-8445		Site Contact: Karim Minkara Lab Contact: Veronica Borst		Date: 2/18/2020 Carrier:		COC No: 1 of 1 COCs	
Analysis Turnaround Time OUTSIDE DAYS WORKING DAYS TAT's effective from Date _____ <input type="checkbox"/> 1 week <input type="checkbox"/> 2 wks <input type="checkbox"/> 3 wks <input type="checkbox"/> 4 wks		Sample Type Type of Container Matrix T/C		Preservation Used: <input type="checkbox"/> None <input type="checkbox"/> HCl <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> HBrO3 <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"/> Disposed to Lab <input type="checkbox"/> Another for _____		Sampler For Lab/Client Only: Walk-in-Client Lab Sampling Job / COC No: Sample-Specific Notes:	
Sample Identification	Sample Date	Sample Time	Sample Type (Container, Matrix)	Matrix	T/C	Preserved	Analysis at Site	Lab Analysis	Available
SC08A-6	2/17/2020	10:40	☐	GR	3		X	X	X
SC08A-25	2/17/2020	10:40	☐	GR	3		X	X	X
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"/> Nonhazardous <input type="checkbox"/> Hazardous <input type="checkbox"/> Site Control <input type="checkbox"/> RCRA <input type="checkbox"/> Dioxin						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) Cont:		Cont:		Therm ID No.:	
Relinquished by: <i>Francesca</i> Signature: <i>Elaine Cook</i> Date/Time: <i>2/18/2020 1:00 PM</i>		Company: <i>Edg</i> Signature: <i>Veronica Borst</i> Date/Time: <i>2/18/2020 2:10 PM</i>		Company: <i>Edg</i> Signature: <i>Elaine Cook</i> Date/Time: <i>2/18/2020 1:00 PM</i>		Company: <i>Edg</i> Signature: <i>Veronica Borst</i> Date/Time: <i>2/18/2020 2:10 PM</i>		Company: <i>Edg</i> Signature: <i>Elaine Cook</i> Date/Time: <i>2/18/2020 1:00 PM</i>	



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3/31/2020

9:00

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RDC Park
Pittsburgh, PA 15236-2907
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Regulatory Program: CER RCRA SDWA Other

TestAmerica Laboratories, Inc.

Client/Contact Southern Company Gen Ralph McGill Blvd/SE B10180 Atlanta, GA, 30308 404-506-7239 Phone FAX Project Name: GPC Plant Scherer Site: AP-1 P O #		Project Manager: Dawn Prell Tel/Fax: 348-506-6485 Analysis Turnaround Time <input type="checkbox"/> CALIBRATED DAYS <input type="checkbox"/> WORKING DAYS DUT Information Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Karim Winkler Lab Contact: Veronica Bortot Date: 3/20/2020 Carrier:		DOC No: ___ of ___ DOCs Sampler: For Lab Use Only: Walk-in Client Lab Sampling: Job / SOG No:						
Sample Identification		Sample Date	Sample Time	Sample Type (E-Corp, E-Env)	Matrix	Part Count	Filtered Sample (Y/N)	Performs MS / MSD (Y/N)	App IV Metals*	MS / MS method	Fluoride	Sample Specific Notes:
SOWC-9		3/19/2020	900	G	GW	3			X	X	X	pH 5.03
SOWC-10		3/19/2020	1000	G	GW	3			X	X	X	pH 5.07
SOWC-12		3/19/2020	140	G	GW	3			X	X	X	pH 5.07
SOWC-13		3/19/2020	1230	G	GW	3			X	X	X	pH 5.04
SOWC-14		3/19/2020	1000	G	GW	3			X	X	X	pH 5.75
SOWC-15		3/19/2020	1410	G	GW	3			X	X	X	pH 4.98
SOWC-16		3/19/2020	1510	G	GW	3			X	X	X	pH 5.16
SOWC-17		3/19/2020	1555	G	GW	3			X	X	X	pH 5.16
SOWC-18		3/19/2020	1615	G	GW	3			X	X	X	pH 5.53
FB-2 (AP)		3/19/2020	-	G	GW	3			X	X	X	
FB-2 (AP)		3/19/2020	1600	G	GW	3			X	X	X	
EB-1 (AP)		3/19/2020	1030	G	GW	3			X	X	X	
EB-2 (AP)		3/19/2020	1640	G	GW	3			X	X	X	
EB-3 (AP)		3/19/2020	1645	G	GW	3			X	X	X	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other							Sample Disposal (A fee may be assessed)			180-102681 Chain of Custody		
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"/> Return to Client <input type="checkbox"/> Disposed by Lab <input type="checkbox"/> Archive for <input type="checkbox"/> Recycle					
Special Instructions/QC Requirements & Comments: *App IV 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) Closed:		Cont'd:		Therm ID No.:				
Relinquished by: <i>Karen</i>		Company: <i>Edco</i>		Date/Time: <i>2/20/20 10:00</i>		Signature: <i>Karen Cook</i>		Carrier Name: <i>Conner Now</i> Date/Time: <i>2/20/20 7:37</i>				
Signature: <i>Karen Cook</i>		Signature: <i>Edco</i>		Signature: <i>Edco</i>		Signature: <i>Edco</i>		Signature: <i>Edco</i> Date/Time: <i>2/20/20 10:40</i>				
Signature: <i>Edco</i> Date/Time: <i>2/20/20</i>		Signature: <i>Edco</i>		Signature: <i>Edco</i>		Signature: <i>Edco</i>		Signature: <i>Edco</i> Date/Time: <i>2-21-20</i>				

Page 93 of 113

3/31/2020



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RDC Park
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Chain of Custody Record



Regulatory Program: RCRA RCRA2 RCRA3 Other

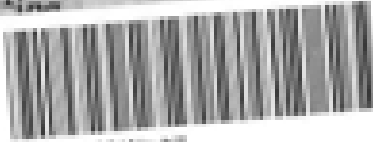
TestAmerica Laboratories, Inc.

Client/Contact		Project Manager: Dawn Peell		Site Contact: Karim Winkara		Date: 200202		COC No:			
Southern Company 241 Ralph McGill Blvd SE, Bldg 880 Atlanta, GA, 30308 (404) 508-7238 Phone Fax:		Tel/Fax: 248-526-8448		Lab Contact: Veronica Sobot		Carrier:		___ of ___ COCs			
Project Name: GPC Plant Schem		Analysis Turnaround Time: <input type="checkbox"/> CALIBRATED DAYS <input type="checkbox"/> WORKING DAYS		Filtered (Retentate) (Y/N) () Filtered (Permeate) (Y/N) () App # Meq/Lr Residue (mg / liter) Precipitate		Sample:		For Lab Use Only: Wash in Client: <input type="checkbox"/>			
Site: AP-1		TAT # different from below: ____				Lab Sampling: <input type="checkbox"/>		Job / SOG No.:			
P.O. #		<input type="checkbox"/> 1 week <input type="checkbox"/> 2 week <input type="checkbox"/> 3 day <input type="checkbox"/> 1 day				Sample Specific Notes:					
Sample Identification	Sample Date	Sample Time	Sample Type (Y/Comp, N/Ink)	Matrix	P. #	Filtered (Retentate) (Y/N) ()	Filtered (Permeate) (Y/N) ()	App # Meq/Lr	Residue (mg / liter)	Precipitate	Sample Specific Notes
SGWC-18	2002020	1130	G	GR	3			X	X	X	pH 4.84
FD-3 (AP)	2002020	-	G	GR	3			X	X	X	
FB-3 (AP)	2002020	1130	G	GR	3			X	X	X	
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 list is to dispose of the sample. <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Ignitable <input type="checkbox"/> Bio 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"/> Shipped to Lab <input type="checkbox"/> Other by: ()					
Special Instructions/COC Requirements & Comments: *Keep list 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: Golden		Date/Time: 2-20-20 1615		Received by: <i>[Signature]</i>		Company: 2-20-20 1612		Date/Time: 2-21-20 9:00	
Requested by: <i>[Signature]</i>		Company: 2-20-20		Date/Time: 1615		Received by: <i>[Signature]</i>		Company: 2-20-20		Date/Time: 2-21-20	
Requested by: <i>[Signature]</i>		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	





Environment Testing
TestAmerica



180-102430 Wileyall

Environment Testing
TestAmerica

180-102430 Wileyall

ORDER ID: 180-102430
SHIP DATE: OCT 11 2018
EUROFINS TESTAMERICA
3001 POCOCKS DRIVE
NORTH PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: OCT 11 2018
BILL REC'D

ORDER ID: 180-102430
SHIP DATE: OCT 11 2018
EUROFINS TESTAMERICA
3001 POCOCKS DRIVE
NORTH PITTSBURGH, PA 15238
UNITED STATES US

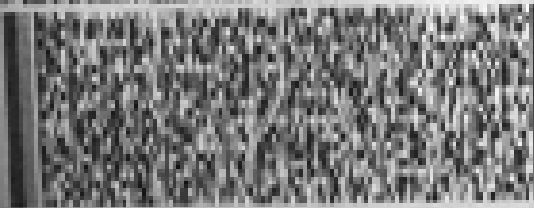
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BILL RECEIPT

10 SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: GOLDR

10 SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: GOLDR



2 of 3
1516 9323 0430
Master# 1516 9323 0429

SATURDAY 12:00
PRIORITY OVERNIGHT

XO AGCA

15238

Uncorrected temp 3.4 °C
Thermometer ID 12

CF Initials TJ

PT-100-02-001 effective 11/2018

1 of 3
1516 9323 0429
Master#

SATURDAY 12:00
PRIORITY OVERNIGHT

XO AGCA

15238

PA-US PIT

Uncorrected temp 3.2 °C
Thermometer ID 1a

CF Initials TJ

PT-100-02-001 effective 11/2018

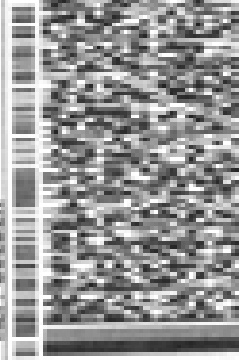


Environment Testing
TestAmerica

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: 10/15/2018
SHIP TO: 1511574
CART: 0001/001/001/001
BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
1410 000-1000
REF: 001018



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

eurofins

Environment Testing
TestAmerica

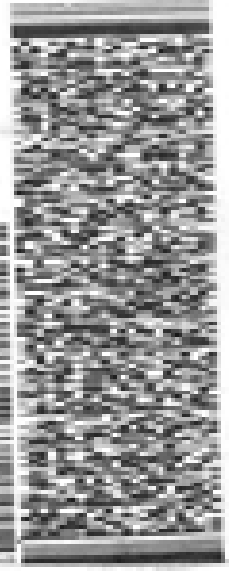
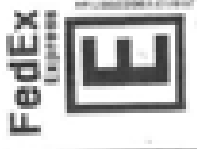
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1-814-251-1000 (LOCAL)
1-814-251-1000 (LOCAL)
1-814-251-1000 (LOCAL)
1-814-251-1000 (LOCAL)

SHIP DATE: 1/29/20
SHIP TO: 1516
SHIP FROM: 1516

BILL RECEIPT

SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238

REC: BANTHERN CO



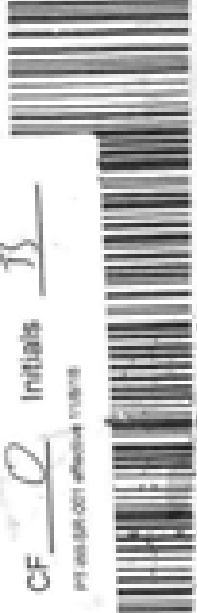
THU - 20 FEB 3:00P
STANDARD OVERNIGHT

1516 9323 0635

NA AGCA

Uncorrected temp 1.0 °C
Thermometer ID 13

CF 13 Initials TS



15238
PA-US
PIT

eurofins

Environment Testing
TestAmerica

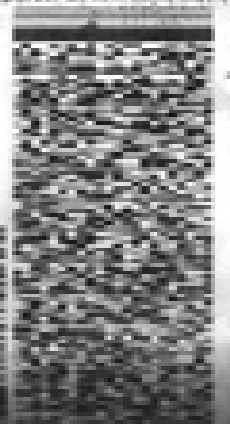
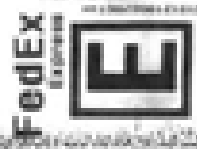
800-854-1234 (TOLL FREE)
1-814-251-1000 (LOCAL)
1-814-251-1000 (LOCAL)
1-814-251-1000 (LOCAL)
1-814-251-1000 (LOCAL)

SHIP DATE: 1/29/20
SHIP TO: 1516
SHIP FROM: 1516

BILL RECEIPT

SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238

REC: BANTHERN CO



THU - 20 FEB 3:00P
STANDARD OVERNIGHT

9323 0657

AGCA

Uncorrected temp 5.0 °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: 00111111 (0000 0000-0000)
PROBID: 00111111 (0000 0000-0000)
COUNTRY: 00111111 (0000 0000-0000)
CITY: 00111111 (0000 0000-0000)
STATE: 00111111 (0000 0000-0000)
ZIP: 00111111 (0000 0000-0000)
DATE: 00/00/00



SHIP DATE: 00/00/00
ACTUAL: 00/00/00
CITY: 000000/000000

BILL RECEIPT

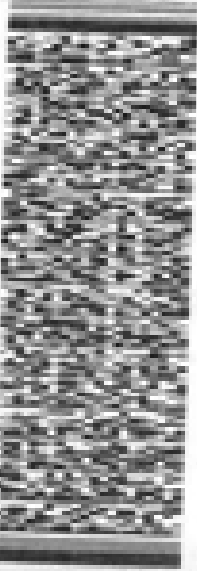
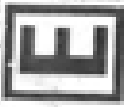
39 SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDD PARK
PITTSBURGH PA 15238

1410 800-7068
PIE: 80THERN.CO



FedEx
Express



1516 9323 0602

THU - 20 FEB 3:00P
STANDARD OVERNIGHT

NA AGCA

15238 PA-03

Uncorrected temp
Thermometer ID

4.2 °C

1.0

Initials

CF O

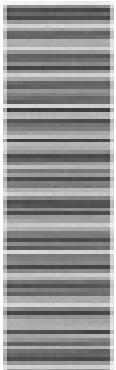
PT-0000-001 effective 1/1/00



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Environment
TestAmerica



1-800-528-8111

Environment Testing
TestAmerica

ORDER # 15116 (478) 9323-0852
SHIP DATE: FRI FEB 21 2020
ACTIVITY: 15116 9323-0852
SHIP ADDRESS: 15116 9323-0852
SUITE: C-10
PITTSBURGH, PA 15238
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
15116 9323-0852
REF: SOUTHERN CO

BILL RECEIPT

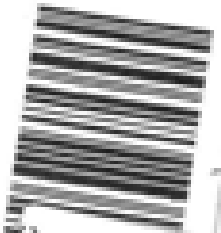


4 of 6
1516 9323 0852
FRI - 21 FEB 3:00P
STANDARD OVERNIGHT
1516 9323 0852

NA AGCA

15238
PA-US
PIT

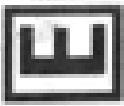
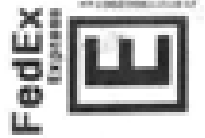
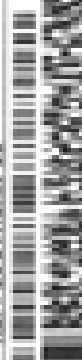
Uncorrected temp 3.1
Thermometer ID 19
CF 0 Initials BS
PT-100-000 effective 1/18/19



ORDER # 15116 (478) 9323-0852
SHIP DATE: FRI FEB 21 2020
ACTIVITY: 15116 9323-0852
SHIP ADDRESS: 15116 9323-0852
SUITE: C-10
PITTSBURGH, PA 15238
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
15116 9323-0852
REF: SOUTHERN CO

BILL RECEIPT



2 of 6
1516 9323 0830
FRI - 21 FEB 3:00P
STANDARD OVERNIGHT
1516 9323 0830

NA AGCA

PA-US

Uncorrected temp 1.1
Thermometer ID 19
CF 0 Initials BS
PT-100-000 effective 1/18/19



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16th



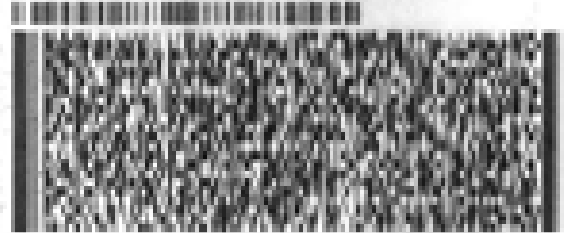
ment Testing
 TestAmerica

Printed on Recycled Paper

ORIGIN: 000174 (478) 848-8881
 ORIGIN: TMS/CA
 CUSIP: TESTAMERICA
 301 ALPHADRIVE
 SUITE C-20
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 20FE00
 ACTWT: 31.45 LB
 CMT: 00018/CAF03012
 BILL RECEIPT

TO: SAMPLE RECEIVING
 EUROFINS TESTAMERICA PITTSBURGH
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH PA 15238
 (412) 848-7848
 REF: SOUTHERN CO



FedEx
 Express

5 of 5 FRI - 21 FEB 3:00P
 1516 9323 0863 STANDARD OVERNIGHT

Metri# 1516 9323 0820
NA AGCA 15238
 PA-US PIT

Uncorrected temp	26.7	C
Thermometer ID	19	
CF	0	Initials JS

PT-000-001 effective 1/2018



Environment Testing
TestAmerica

SHIP TO: 1516 9323 0820
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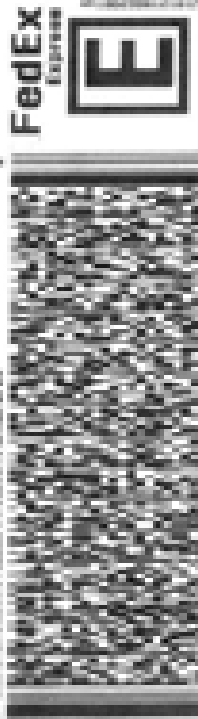
SHIP DATE: FEBRUARY 21, 2020
SHIP TIME: 08:00 AM
SHIP TO: 1516 9323 0820
SHIP FROM: 1516 9323 0820

BILL RECEIPT

TO: SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

1470 984-7000
REF: SOUTHERN CO



3 of 5
MAY 1516 9323 0841
Metrol 1516 9323 0820 5601
FRI - 21 FEB 3:00P
STANDARD OVERNIGHT

NA AGCA

15238
PL-US PIT

Unconnected temp 16 °C
Thermometer ID B

CF 0 Initials B

PT-USA-001-0000110010



Environment Testing
TestAmerica

SHIP DATE: FEBRUARY 21, 2020
SHIP TIME: 08:00 AM
SHIP TO: 1516 9323 0820
SHIP FROM: 1516 9323 0820

SHIP DATE: FEBRUARY 21, 2020
SHIP TIME: 08:00 AM
SHIP TO: 1516 9323 0820
SHIP FROM: 1516 9323 0820

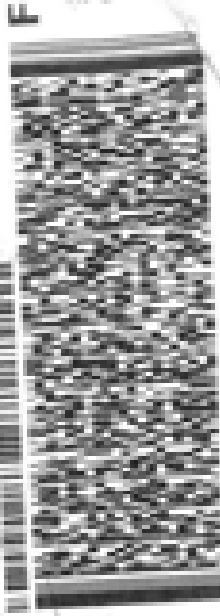
SHIP DATE: FEBRUARY 21, 2020
SHIP TIME: 08:00 AM
SHIP TO: 1516 9323 0820
SHIP FROM: 1516 9323 0820

BILL RECEIPT

TO: SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

1470 984-7000
REF: SOUTHERN CO



1 of 5
MAY 1516 9323 0820
Metrol 1516 9323 0820 5601
FRI - 21 FEB
STANDARD OVE

NA AGCA

PL-US

Unconnected temp 16 °C
Thermometer ID B

CF 0 Initials B

PT-USA-001-0000110010

PT-USA-001-0000110010

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EX-20
A
02-21

16TH

Test America

FROM: EUROFINS TEST AMERICA
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH, PA 15238
 UNITED STATES US

ORIGIN: 02-21-17
 18781 868-8881
 8000 1871 08
 EUROFINS TEST AMERICA
 8000 RIDC PARK DRIVE
 SUITE 2-10
 PITTSBURGH, PA 15238
 UNITED STATES US

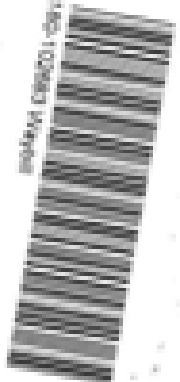
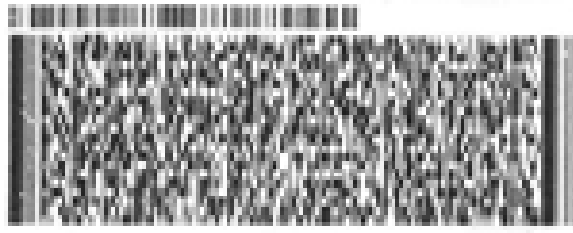
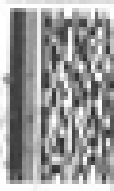
SHIP DATE: 02/21/20
 ACT WT: 48.70 LB
 CAG: 80018-CAG0382

BILL RECEIPT

BUDD PLAN1 10986 B1018 JULIE

SAMPLE RECEIVING
 EUROFINS TEST AMERICA PITTSBURGH
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH PA 15238

REF: SOUTHERN CO



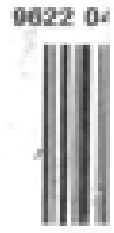
465 Matr# 48

TRAC 1516 9323 0874

FRI - 21 FEB 3:00P
 STANDARD OVERNIGHT

NA AGCA

15238
 PA-US PIT

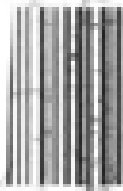


Uncorrected temp 10.2 °C

Thermometer ID 10

CF 0 Initials JB

PT-99-DR-001 effective 1/18/18



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab Info		Event/Testing Info	
Client Name Shipping/Receiving		Address City State Zip		Event Name	
Company Address City State Zip		Phone Fax		Date of Origin	
Person Name COB - Plant Scheme		Email		Lab #	
Job COB Plant Scheme		Contract Number		Project Name	
Sample Identification - Client ID (Lab ID)		New Data Requested		Analysis Requested	
SOVA-1 (180-102400-1)	2/13/20	13.0	Water	None Requested (This is all)	None Requested (This is all)
SOVA-2 (180-102400-2)	2/13/20	15.0	Water	None Requested (This is all)	None Requested (This is all)
SOVA-24 (180-182400-3)	2/13/20	15.0	Water	None Requested (This is all)	None Requested (This is all)
Sample Date		Sample Time	Sample Type (C-Contaminant, G-Gas)	Matrix (S-Solid, L-Liquid, G-Gas)	Preservation Code
Total Number of Containers		Total Number of Samples		Special Instructions/Notes	
1		1			
1		1			
1		1			
<p>Note: Some secondary constituents are subject to change. Eurofins TestAmerica places the contents of method, sample ID and container information upon all subsequent shipments. The sample information is provided with chain of custody. If the laboratory does not currently perform a certain constituent, it will be noted as "N/A". Analytical methods being performed for samples will be printed back to the facility. Technical information is also included in the report. Any sample is a non-hazardous waste should be brought to Eurofins TestAmerica attention immediately. If a hazardous constituent is found, it will be reported immediately to the appropriate authority. If a hazardous constituent is found, it will be reported immediately to the appropriate authority.</p>					
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return to Client <input type="checkbox"/> Dispose by Lab <input type="checkbox"/> Archive for _____ Months</p> <p>Special Instructions/OC Requirements:</p>					
Event/OC Requested By		Event/OC Requested By		Event/OC Requested By	
Date/Time		Date/Time		Date/Time	
Signature		Signature		Signature	
Company		Company		Company	
Custody Seal No.		Custody Seal No.		Custody Seal No.	
Date/Time		Date/Time		Date/Time	



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 \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 <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 \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.	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 \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 <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.	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 \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?	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: 102587

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: 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 \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 <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: 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 \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 <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 A

**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

Shali Brown, Project Manager II
(615)301-5031
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: Plant Scherer Ash Pond

Job ID: 180-103766-1

Job ID: 180-103766-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

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										

Eurofins TestAmerica, Pittsburgh

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

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

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

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	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

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	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

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 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								

Eurofins TestAmerica, Pittsburgh

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		1			311585	03/26/20 16:00	FDS	TAL PIT
Instrument ID: NOEQUIP										

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		1			312565	04/10/20 15:26	SAC	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	EPA 300.0 R2.1		10			312565	04/10/20 15:41	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 23:36	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	311987	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312179	04/06/20 16:24	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	03/26/20 16:38	FDS	TAL PIT
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	Analysis	EPA 300.0 R2.1		1			312565	04/10/20 16:29	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 23:39	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	311987	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312179	04/06/20 16:25	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										

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
Thallium	0.00049	J 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
Total Dissolved Solids	25		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	5.37				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
Chloride	1.5		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
Sulfate	1.3		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
Barium	0.071		0.010	0.0016	mg/L		03/25/20 15:29	04/02/20 17:43	1
Beryllium	0.00018	J	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
Calcium	18		0.50	0.13	mg/L		03/25/20 15:29	04/02/20 17:43	1
Chromium	0.0047		0.0020	0.0015	mg/L		03/25/20 15:29	04/02/20 17:43	1
Cobalt	0.00032	J	0.0025	0.00013	mg/L		03/25/20 15:29	04/02/20 17:43	1
Lead	0.00021	J	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
Molybdenum	0.00064	J	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
Thallium	0.00021	J	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
Total Dissolved Solids	140		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

Eurofins TestAmerica, Pittsburgh

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
Barium	0.10		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
Boron	0.83		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
Calcium	36		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
Cobalt	0.00016	J	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
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	6.12				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
Fluoride	0.067	J	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
Barium	0.024		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
Boron	0.37		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
Calcium	58		0.50	0.13	mg/L		03/30/20 00:45	04/15/20 15:08	1
Chromium	0.0079		0.0020	0.0015	mg/L		03/30/20 00:45	04/15/20 15:08	1
Cobalt	0.00044	J	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
Total Dissolved Solids	430		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	6.21				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
Chloride	9.1		1.0	0.32	mg/L			04/09/20 01:22	1
Fluoride	0.081	J	0.10	0.026	mg/L			04/09/20 01:22	1
Sulfate	71		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
Barium	0.065		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
Boron	0.55		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
Calcium	22		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
Sulfate	0.71	J	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
Chloride	2.3		1.0	0.32	mg/L			04/10/20 12:32	1
Fluoride	0.13		0.10	0.026	mg/L			04/10/20 12:32	1
Sulfate	0.58	J	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
Arsenic	0.00044	J	0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 15:51	1
Barium	0.12		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 15:51	1
Beryllium	0.00020	J	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
Cadmium	0.00022	J	0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 15:51	1
Calcium	11		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
Cobalt	0.00027	J	0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 15:51	1
Lead	0.00020	J	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
Thallium	0.00049	J	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
Total Dissolved Solids	94		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	6.31				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
Chloride	10		1.0	0.32	mg/L			04/10/20 14:38	1
Fluoride	0.31		0.10	0.026	mg/L			04/10/20 14:38	1
Sulfate	62		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
Arsenic	0.00063	J	0.0010	0.00031	mg/L		03/30/20 08:55	04/15/20 16:07	1
Barium	0.19		0.010	0.0016	mg/L		03/30/20 08:55	04/15/20 16:07	1
Beryllium	0.00030	J	0.0025	0.00018	mg/L		03/30/20 08:55	04/15/20 16:07	1
Boron	0.089		0.080	0.039	mg/L		03/30/20 08:55	04/15/20 16:07	1
Cadmium	0.00031	J	0.0025	0.00022	mg/L		03/30/20 08:55	04/15/20 16:07	1
Calcium	48		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
Cobalt	0.00032	J	0.0025	0.00013	mg/L		03/30/20 08:55	04/15/20 16:07	1
Lead	0.00029	J	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
Thallium	0.00079	J	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
Total Dissolved Solids	360		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	6.35				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
Cobalt	0.029		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
Total Dissolved Solids	59		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	5.26				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
Chloride	9.0		1.0	0.32	mg/L			04/10/20 14:22	1
Fluoride	0.058	J	0.10	0.026	mg/L			04/10/20 14:22	1
Sulfate	0.58	J	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
Barium	0.046		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
Boron	0.45		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
Calcium	2.0		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
Cobalt	0.024		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
Barium	0.044		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
Boron	0.51		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
Calcium	2.0		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
Cobalt	0.024		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
Total Dissolved Solids	39		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
Chloride	9.0		1.0	0.32	mg/L			04/10/20 06:59	1
Fluoride	0.045	J	0.10	0.026	mg/L			04/10/20 06:59	1
Sulfate	81		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
Barium	0.034		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
Boron	0.49		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
Calcium	18		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
Cobalt	0.0020	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

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer Ash Pond

Job ID: 180-103766-1

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: 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

Lab Sample ID: 180-104108-2

Date Collected: 03/26/20 16:00

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	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

Lab Sample ID: 180-104108-3

Date Collected: 03/26/20 16:38

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	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

Eurofins TestAmerica, Pittsburgh

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

Eurofins TestAmerica, Pittsburgh

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

Eurofins TestAmerica, Pittsburgh

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

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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 180-311118/2-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

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 180-311753/2-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

Eurofins TestAmerica, Pittsburgh

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

Eurofins TestAmerica, Pittsburgh

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

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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: 180-104107-2 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	

Eurofins TestAmerica, Pittsburgh

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	

Eurofins TestAmerica, Pittsburgh

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	

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

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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	

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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	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

TestAmerica Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15208-2907
Phone 412 963 7658 Fax 412 963 2489

Chain of Custody Record

601 Atlanta

TestAmerica

The Laboratory is Accredited to ISO 17025

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Dawn Pease		Site Contact: Chris Tolwell
Lab Contact		Lab Contact: Veronica Brink		Date: 3/17/2020
Regulatory Program: <input type="checkbox"/> Air <input type="checkbox"/> Soil <input type="checkbox"/> Other: _____		Analysis Turnaround Time <input type="checkbox"/> 1 business day <input type="checkbox"/> 2 business days <input type="checkbox"/> 3 business days		Barcode: [Barcode]
Sample Identification	Sample Date	Sample Time	Sample Type (e.g., water, soil)	# of Matrix Con.
SOVA-5	3/17/2020	14:25	G Water	4
SOVA-3	3/17/2020	15:38	G Water	4
SOVA-2	3/17/2020	14:30	G Water	4
SOVA-25	3/17/2020	15:45	G Water	4
FB-1147	3/17/2020	-	G Water	4

<input type="checkbox"/> Not tested	<input type="checkbox"/> Unknown	<input type="checkbox"/> Taken to Client	<input type="checkbox"/> Taken to Lab	<input type="checkbox"/> Archived	<input type="checkbox"/> Archived by _____
-------------------------------------	----------------------------------	--	---------------------------------------	-----------------------------------	--

Preservation Method: In Ice, In Hot, In HCl, In H2SO4, In HNO3, In H2O2, In 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.

Comments: _____

Special Instructions/OC Requirements & Comments: _____

Custody Seal No.:	3/18/20	3/19/20
Approved by:	[Signature]	[Signature]
Received by:	[Signature]	[Signature]
Signature:	[Signature]	[Signature]

Cooler Temp. (C):	Obs: _____	Team ID No.:	_____
Tested by:	_____	Received by:	_____
Signature:	[Signature]	Signature:	[Signature]
Date:	3/18/20	Date:	3/19/20
Time:	_____	Time:	8:00

Form No. CA-C-88-003, Rev. 6.20, dated 3/20/2019



TestAmerica Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15204-2907
Phone: 412.953.7058 Fax: 412.953.2468

Atlanta

Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact: **Client Name:** Southern Company
Address: 241 Ralph McGill Blvd SE, 30316 Atlanta, GA 30308
Project Name: CCR - Plant Scherer Ash Pond
Site: Georgia
POB: 1801884

Regulatory Program: Air Water Soil Other

Project Manager: **Gene Fyall**
 Tel/Fax: 248-538-5445

Analysis Turnaround Time:
 2 weeks
 3 weeks
 4 weeks
 5 weeks

Lab Contact: **Chris Tufwell**
 Date: 3/18/2020
 Carrier: _____

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Analysis				Sample Specific Notes
						GC	GC/MS	GC/MS/MS	GC/MS/MS	
SO984-1	3/18/2020	14:50	G	Water	4	X	X	X	X	John 3:37
SO984-4	3/18/2020	14:50	G	Water	4	X	X	X	X	John 3:37
SO984-24	3/18/2020	13:22	G	Water	4	X	X	X	X	John 6:40
FD-1 (MS)	3/18/2020	-	G	Water	4	X	X	X	X	
EB-1 (BP)	3/18/2020	16:00	G	Water	4	X	X	X	X	



Preservation Used: Ice Dry Ice H2SO4 HNO3 HClO4 Other

Possible Matrix 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/OC Requirements & Comments:

Analysis Date: 3/18/2020
 Analysis Time: 14:50
 Matrix: Water
 # of Containers: 4

Sample Disposed (A fee may be assessed if samples are retained longer than 1 month):
 Not to be Disposed Disposed in Lab Other

Custody Seal No.: _____

Requested by: **Kevin Cook**
 Date Time: 3/19/20 8:25
 Received by: **Blaine Cook**
 Date Time: 3-19-20 10:20
 Received by: **Blaine Cook**

Company: **Southern Company**

Form No. CA-C-001-002, Rev. 4.00, 09/2019



Client Contact: Agri Abraham
Southern Company
241 Ralph McGill Blvd SE B10116
Atlanta, GA 30338
Project Name: CCR - Plant Ashes Ash Pond
Site: Georgia
P.O. # 1878884

Site Contact: Chris Tidwell
Lab Contact: Veronica Borjas

COC No: _____ of _____ COCs

Sampler: _____
For Lab Use Only:
Within Client:
Lab Sampling

200-1-8000-001

Sample Identification	Sample Date	Sample Time	Sample Type	Sample Volume	Matrix	# of Matrix Cons.	Analysis			
							1	2	3	4
50962-19	3/23/2000	17:45	G	Water	3		X	X	X	
50962-20	3/23/2000	18:35	G	Water	3		X	X	X	
50962-21	3/23/2000	18:35	G	Water	3		X	X	X	
EB-2047	3/23/2000	18:00	G	Water	3		X	X	X	
FD-2047	-	-	G	Water	3		X	X	X	



Preservation Used: Ice, HD, HNO3, H2SO4, HClO4, 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.

Special Instructions/CC Requirements & Comments:

Custody Seal No: _____

Signature: _____ Date: 3/24/20
Signature: _____ Date: 3/24/20
Signature: _____ Date: 3/24/20

Carrier Name: RALPH COOK
Carrier No: 324-20
Company: ESTAR

Temperature: 9.99

Chain of Custody Record

TestAmerica Laboratories, Inc.

Regulatory Program: SW TSD RCRA Other

Client Contact: **Ugo Morahan**
Southern Company
241 Fifth Street Blvd SE, B1104B
Atlanta, GA 30309
Project Name: COA - Plant Screen Ash Pond
Site: Georgia
P# 0181907984

Project Manager: Dawn Freil
Tel/Fax: 248-834-8848

Site Contact: Chris Tidwell
Lab Contact: Vanessa Boring

Date: 3/25/20
Carrier:
1 of 1 COCs

Analysis Turnaround Time
 Outsource only Laboratory only
TAT if different from below: ___ 24 hrs ___
 2 weeks 1 week 2 days 1 day

Sample ID	Sample Type	Sample Time	Sample Matrix	# of Containers	Sample Identification	
					Sample ID	Sample Type
304-0000	G	12:02	Water	3	304-0000-17	
304-0000	G	12:06	Water	3	304-0000-18	
304-0000	G	08:48	Water	3	304-0000-19	
304-0000	G	08:30	Water	3	FB-2047	



Preservation Used: In Ice, In HCl, In HNO3, In H2SO4, In H2O2, In NaOH, In Other
 Analytical Method 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.

Return to Client Return to Lab Analyze for Analyze for

Special Instructions/OC Requirements & Comments:

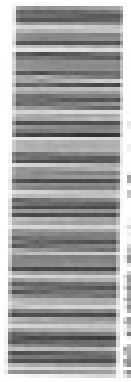
Custody Seal No.:
 Submitted by: *Esther...*
 Date/Time: *3/25/20 8:12 AM*
 Company: *General Now*
 Submitted by: *Esther Now*
 Date/Time: *3/25/20 8:12 AM*
 Company: *General Now*

Collector Temp (C): *10* Client: *Edine Co. Inc.* Other: *Durier Now* Other: *3/25/20 8:12 AM*
 Form No. CAC-W-001, Rev. 4.0A, dated 02/02/19



Pittsburgh, PA 15228-2907
phone 412 963-7050 fax 412 963-3469

TestAmerica Laboratories, Inc.

Client Contact		Regulatory Program: <input type="checkbox"/> SW <input type="checkbox"/> WQS <input type="checkbox"/> IWA <input type="checkbox"/> Other		Date: 3/20/20		COC No: 1 of 1 COCs	
Project Manager: Dawn Prall Tel/Fax: 48-938-6445		Site Contact: Chris Trivell		Carrier:		Sampler:	
Southern Company 241 Ralph McGill Blvd SE, B10185 Atlanta, GA 30338		Lab Contact: Veronica Borbot		For Lab Use Only: Initials Client: _____ Lab Sampling: _____		Job / SOG No.:	
Project Name: CCR - Plant Scherer Ash Pond		Analysis Turnaround Time <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		TAT followed from below: <u>1-5 days</u>		Sample Specific Notes:	
Sample Identification	Sample Code	Sample Time	Sample Type (e.g., water, soil)	Matrix	# of Cont.		
SOWC-8	30250020	11:20	G Water	Water	2	X	3/21
SOWC-8	30250020	09:15	G Water	Water	2	X	3/25
SOWC-8	30250020	08:18	G Water	Water	2	X	3/21
SOWC-10	30250020	11:00	G Water	Water	2	X	3/26
SOWC-11	30250020	11:58	G Water	Water	2	X	3/19
(B-304P)	30250020	11:40	G Water	Water	2	X	
(P-304P)	--	--	G Water	Water	2	X	
 160-10-0059 Chain of Custody							
Preservation Used: <input type="checkbox"/> Ice, <input type="checkbox"/> HCl, <input type="checkbox"/> HNO3, <input type="checkbox"/> H2SO4, <input type="checkbox"/> H2O2, <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"/> Non-hazard <input type="checkbox"/> Discharge <input type="checkbox"/> San Intest <input type="checkbox"/> Unknown							
Special Instructions/Requirements & Comments:							
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C):		Temp. (°F):	
Company: <u>Southern</u> Received by: <u>Retain Cook</u> Date: <u>3/20/20</u>		Date Recd: <u>3/20/20</u> Received by: <u>Retain Cook</u> Date Recd: <u>3/20/20</u>		Company: <u>TestAmerica</u> Received by: <u>Veronica Borbot</u> Date Recd: <u>3/20/20</u>		Company: <u>TestAmerica</u> Received by: <u>Veronica Borbot</u> Date Recd: <u>3/20/20</u>	



Client Contact Joju Abraham Southern Company 241 Ralph McGill Blvd SE, B10185 Atlanta, GA 30308		Regulatory Program: <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> SO ₂ <input type="checkbox"/> Other		Project Manager: Dawn Prohl Tel/Fax: 248-526-5445		Date: 3/27/20 Carrier: Cummins		COC No: 1 of 1 COCs			
Project Name: CCR - Plant Scherer Ash Pond Site: Georgia P O # 1507664		Analysis Turnaround Time <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 1 day		Site Contact: Chris Tibbitt Lab Contact: Veronica Borstad		Site Contact: Chris Tibbitt Lab Contact: Veronica Borstad		Sampler: Per Lab Use Only Wash-in Client: Lab Sampling: Job / SOG No.:			
Sample Identification		Sample Date		Sample Time		Sample Type		Matrix		# of Cont.	
SOWC-13		3/27/2020		9:10		G		Water		3	
SOWC-14		3/27/2020		10:04		G		Water		3	
SOWC-15		3/27/2020		08:48		G		Water		3	
SOWC-16		3/27/2020		10:09		G		Water		3	
Sample Specifics Notes		4		1		4		4		4	
Preservation Used: 5= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=H2O2, 6=KOH, 7= Other		Returned to Client		Received by Lab		Accepted for		Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
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/OC Requirements & Comments		Custody Seal No:		Company: <i>Lab</i>		Date/Time: <i>3/27/20</i>		Received by: <i>Chris Tibbitt</i>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Company: <i>Lab</i>		Date/Time: <i>3/27/20</i>		Company: <i>Lab</i>		Date/Time: <i>3/27/20</i>		Received by: <i>Chris Tibbitt</i>	
Company: <i>Lab</i>		Date/Time: <i>3/27/20</i>		Company: <i>Lab</i>		Date/Time: <i>3/27/20</i>		Company: <i>Lab</i>		Date/Time: <i>3/27/20</i>	

Client Contact

Project Manager: Dawn Proff
Tel/Fax: 248-528-5445

Regulatory Program: SW MOC ICA Other

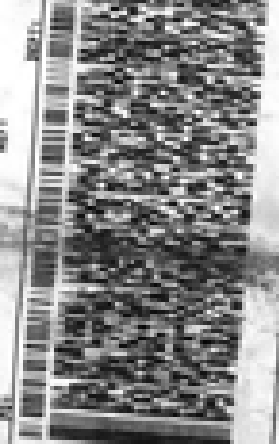
TestAmerica Laboratories, Inc.

Sojo Abraham Southern Company 241 Ralph McGill Blvd SE B1505 Atlanta, GA 30339 Project Name: OGR - Plant Scherer Ash Pond Site: Georgia P O B 18019884		Date: 2/28/20 Carrier:		Date: 2/28/20 Carrier:	
Bill Contact: Chris Tidwell Lab Contact: Veronica Borstad		Date: 2/28/20 Carrier:		Date: 2/28/20 Carrier:	
Project Manager: Dawn Proff Tel/Fax: 248-528-5445		Regulatory Program: <input type="checkbox"/> SW <input type="checkbox"/> MOC <input type="checkbox"/> ICA <input type="checkbox"/> Other		TestAmerica Laboratories, Inc.	
Analysis Turnaround Time <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 1 day		Sample Date 3/28/2020 3/28/2020 3/28/2020 3/28/2020		Sample Time 16:34 16:00 16:38 17:00	
Sample Type Water Water Water Water		Matrix Water Water Water Water		# of Cont. 3 4 3 3	
Sample Identification SOWC-7 SOWC-12 SOWC-18 FB-2 (MP)		pH 6.52 8.10 4.74		Sample Specific Notes 180-104108 Chain of Custody	
Preservation Used: 1= Ice, 2= IBC, 3= IBC/04, 4= IBC/03, 5= NaOH, 6= Other		Possible Hazard Identification:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
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/QC Requirements & Comments:		Return to Client <input type="checkbox"/> Discard by Lab <input type="checkbox"/> Archive by <input type="checkbox"/>	
Custody Seal No.:		Company:		Date/Time:	
Company:		Date/Time:		Date/Time:	
Company:		Date/Time:		Date/Time:	
Company:		Date/Time:		Date/Time:	



SHIP DATE: 03/19/20
SHIP TIME: 10:30A
CITY: PITTSBURGH
STATE: PA
ZIP: 15238
BILL TO: PARTY

TO: SHALI BROWN
EUROFINS TEST AMERICA
301 ALPHA DR RIDG PARK
PITTSBURGH PA 15238



3912 2002 4924

NA AGCA

THU - 19 MAR 10:30A
PRIORITY OVERNIGHT

AHS
15238
PIT

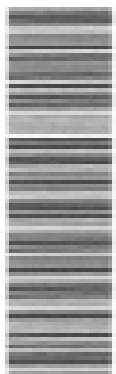
Uncorrected temp _____ °C
Thermometer ID _____
CF Initials JD



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TestAmeri



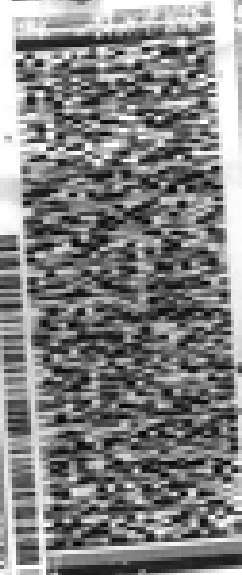
180-50798 Waybill

ORIGIN: PULLMAN
DESTINATION: PITTSBURGH
SHIP TO: TESTAMERICA
SHIP FROM: PULLMAN
SHIP DATE: 03-19-19
SHIP TIME: 03:00
SHIP TYPE: 001
SHIP CLASS: 001

SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238

REP: SOUTHERN CO

FedEx



THU - 19 MAR 3
STANDARD WED

2 of 2
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MREF 1516 9323 1940

NA AGCA

Uncorrected temp
Thermometer ID
CF 0 Initials J



PT-18-001 03/19/19

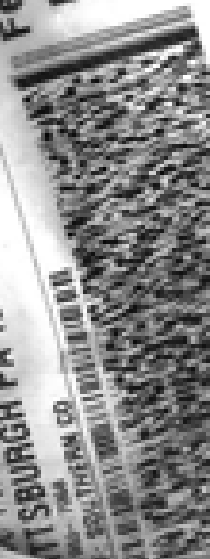
97

... for solvent testing
TestAmerica

REP: SOUTHERN CO

RECEIVING
EUROFINS TESTAMERICA
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238

FedEx

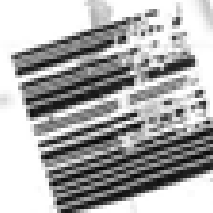


THU - 19 MAR 3:00P
STANDARD OVERNIGHT
15238
PIT

1 of 2
MREF 1516 9323 1940

NA AGCA

Uncorrected temp
Thermometer ID
CF 0 Initials J



PT-18-001 03/19/19

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Environment TestAmerica

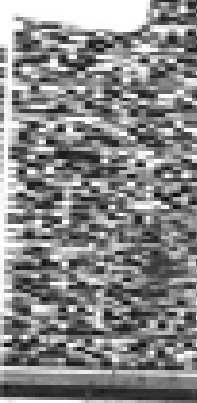
1697

180 103814 Waybill
1516 9323 2054
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SAMPLE RECEIVING
EUROFINS TESTAMERICA
301 ALPHA DR.
RIDC PARK

PITTSBURGH PA 15238

REF: GOLDBERGER - SCHERER



FRI - 20 MAR 3:00P
STANDARD OVERNIGHT

2 of 3
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1516 9323 2053

NA AGCA

15238
PA - US
PIT

Uncorrected Temp
Thermometer ID
CF

Initials
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ORIGIN 1516 9323 2053
SHIP DATE 20 MAR 2015
SHIP TIME 03:00
SHIP TO
301 ALPHA DR
RIDGE PARK
PITTSBURGH PA 15238
UNITED STATES OF AMERICA

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDGE PARK
PITTSBURGH PA 15238

1516 9323 2053
REP: SOLDER - SCHERER
1516 9323 2053
1516 9323 2053

1 of 3
FRI - 20 MAR
STANDARD OVERNIGHT
1516 9323 2053

NA AGCA

Unconnected Temp Thermometer ID
CF Q Initials JS

ORIGIN 1516 9323 2053
SHIP DATE 20 MAR 2015
SHIP TIME 03:00
SHIP TO
301 ALPHA DR
RIDGE PARK
PITTSBURGH PA 15238
UNITED STATES OF AMERICA

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA P
301 ALPHA DR.
RIDGE PARK
PITTSBURGH PA 15238

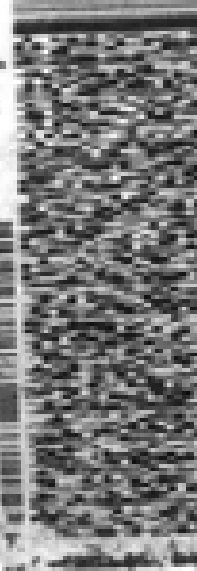
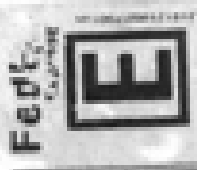
1516 9323 2053
REP: SOLDER - SCHERER
1516 9323 2053
1516 9323 2053

3 of 3
FRI - 20 MAR 3:00P
STANDARD OVERNIGHT
1516 9323 2053

NA AGCA

Unconnected Temp Thermometer ID
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Environment Testing
TestAmerica

SHIP DATE: 03/24
SHIP TIME: 11:00 AM
SHIP TO: 1516 9323 2248
SHIP TO: 1516 9323 2248

SHIP DATE: 03/24
SHIP TIME: 11:00 AM
SHIP TO: 1516 9323 2248
SHIP TO: 1516 9323 2248

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

BILL RECIPIENT

REF: GOLDBL - SCHENCK



WED - 25 MAR
STANDARD OVERNIGHT

15238
PA-US
PIT

NA AGCA



Uncorrected temp
Thermometer ID

CF 0 Initials B

PT-100-001 effective 1/18/18

1 of 2

TRK 1516 9323 2248

REF MASTER #0

CF 10
65622

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16^h



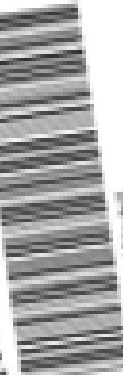
TestAmerica

ORIGIN 1516 9323 2248
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SHIP DATE: 03/24
SHIP TIME: 11:00 AM
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TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: GOLDBL - SCHENCK



1516 9323 2248

WED - 25 MAR
STANDARD OVERNIGHT

15238
PA-US
PIT

NA AGCA



Uncorrected temp
Thermometer ID

CF 0 Initials B

PT-100-001 effective 1/18/18



WED - 25 MAR
STANDARD OVERNIGHT

1516 9323 2259

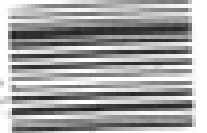
REF: 1516 9323 2248

NA AGCA

Uncorrected temp
Thermometer ID

CF 0 Initials B

PT-100-001 effective 1/18/18



1516 9323 2259

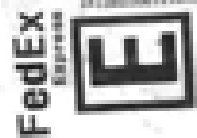
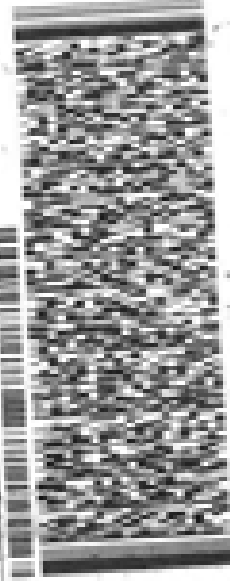
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ORIGIN BILLING (L) 9701 9801-9999
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TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: GOLGER - SCHERER

1516 9323 2270



THU - 26 MAR 3:00P
STANDARD OVERNIGHT

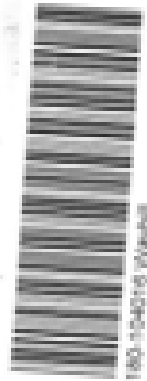
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15238

15238

Uncorrected temp
Thermometer ID

CF 0 Initials JS



180-184016 Wrapall

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eurofins

167

1678
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DELIVER TO: ENR (678) 968-968
DELIVER TO: ENR
DELIVER TO: ENR
DELIVER TO: ENR
DELIVER TO: ENR
DELIVER TO: ENR

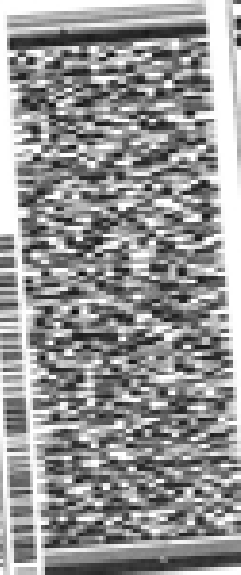
SHIP DATE: 27 MAR 2020
SHIP TO: ENR
SHIP TO: ENR

BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: SOUTHERN CO

FedEx
Express



FRI - 27 MAR 3:00P
STANDARD OVERNIGHT

1 of 2
1516 9323 2410

Master # 1516 9323 2400

NA AGCA

15238
PA-US
PIT

Uncorrected temp: 34.1
Thermometer ID: 17

eurofins



150-104059 154059

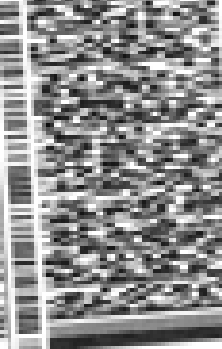
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DELIVER TO: ENR
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DELIVER TO: ENR
DELIVER TO: ENR
DELIVER TO: ENR

SHIP DATE: 27 MAR 2020
SHIP TO: ENR
SHIP TO: ENR

BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: SOUTHERN CO



FRI

1 of 2
1516 9323 2400

Master # 1516 9323 2400

NA AGCA

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17
17

Uncorrected temp: 34.1
Thermometer ID: 17

CF 17

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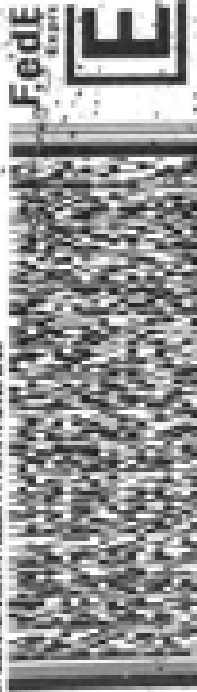
Environment Testing
TestAmerica

ORIGIN MAILING CENTER 866-8888
SHIP DATE: 2/20/20
SHIP TO: 301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

SHIP DATE: 2/20/20
SHIP TO: 301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

412 866-7000
REF: SOUTHERN CO



180-104107 2/20/20

1 of 4
TRK# 1516 9323 2455
REF MASTER #
SATURDAY 12:00L
PRIORITY OVERNIGHT

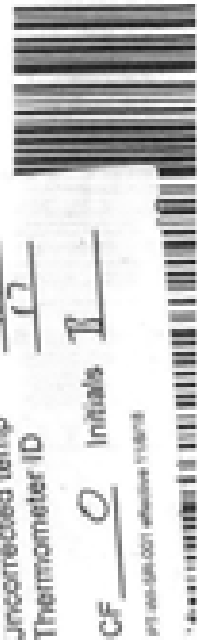
XO AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

CF 0 Initials R

4.1
17

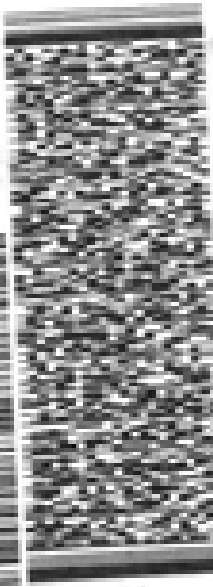


ORIGIN MAILING CENTER 866-8888
SHIP DATE: 2/20/20
SHIP TO: 301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

SHIP DATE: 2/20/20
SHIP TO: 301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

412 866-7000
REF: SOUTHERN CO



2 of 4
MPS# 1516 9323 2476
Master# 1516 9323 2466
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

CF 0 Initials R

4.1
17



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Environment
TestAmerica

1200
4
639

ORIGIN: 001174 (070) 988-0000
ADDRESS: 301 ALPHA DR.
RIDC PARK
PITTSBURGH, PA 15238
UNITED STATES US

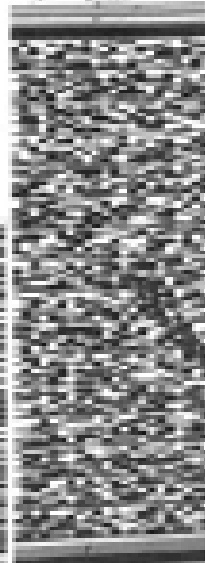
SHIP DATE: 07/06/2020
ACTIVITY: 1510 LB
CART: 001174-001174

BILL TO: RECIPIENT

TO: SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

0710 000 - 0000
REF: SOUTHERN 00

FedEx
Express



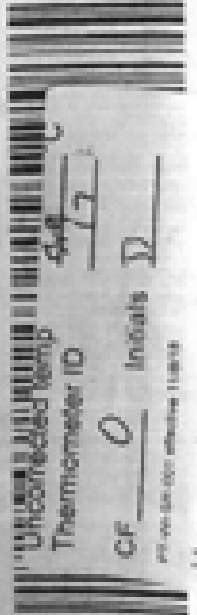
3 of 4 SATURDAY 12:00P
PRIORITY OVERNIGHT

MPN: 1516 9323 2487
CART: 1516 9323 2485

5801

XO AGCA

15238
PA-US
PIT



Unconnected Temp
Thermometer ID
CF 0 Initials D



Environment Testing
TestAmerica

ORIGIN: 001174 (070) 988-0000
ADDRESS: 301 ALPHA DR.
RIDC PARK
PITTSBURGH, PA 15238
UNITED STATES US

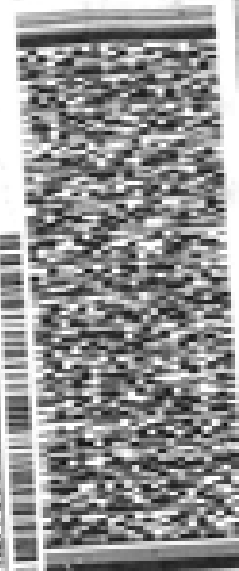
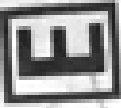
SHIP DATE: 07/06/2020
ACTIVITY: 1510 LB
CART: 001174-001174

BILL TO: RECIPIENT

TO: SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

0710 000 - 0000
REF: SOUTHERN 00

FedEx
Express



4 of 4 SATURDAY 12:00P
PRIORITY OVERNIGHT

MPN: 1516 9323 2498
CART: 1516 9323 2485

5801

XO A

Unconnected Temp
Thermometer ID
CF 0 Initials D

15238
PA-US
PIT



Unconnected Temp
Thermometer ID
CF 0 Initials D

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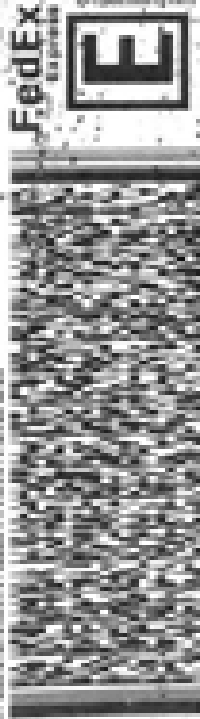


Environment Testing
TestAmerica

ORIGIN BILLING (678) 866-8881
SHIP DATE: 07/20/20
ACTIVITY: 10 AM
ONLY READING/CONFIRM
BILL RECEIPT

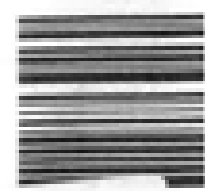
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 969-3008
REF: SOUTHERN CO



1 of 4
TRK# 1516 9323 2465
#F MASTER #F
XO AGCA
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US -PIT

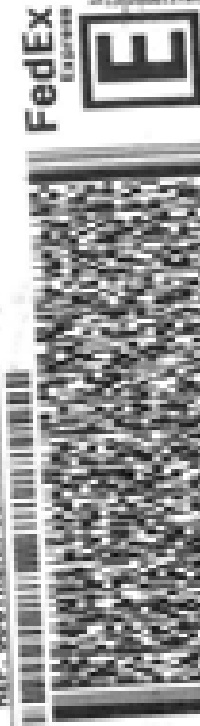
Uncorrected temp 4.1 °C
Thermometer ID IL
CF 0 Initials IL
PT-99-24-001 effective 1/20/13



ORIGIN BILLING (678) 866-8881
SHIP DATE: 07/20/20
ACTIVITY: 10 AM
ONLY READING/CONFIRM
BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 969-3008
REF: SOUTHERN CO



2 of 4
TRK# 1516 9323 2476
Master 1516 9323 2465
XO AGCA
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US -PIT

Corrected temp 4.1 °C
Thermometer ID IL
CF 0 Initials IL
PT-99-24-001 effective 1/20/13



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Environment
TestAmerica

1208
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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: 0001/0001/0001

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
ACTUAL: 07/15/20
CONF: 0001

SATURDAY 12:00P
PRIORITY OVERNIGHT

1516 9323 2487
Metric# 1516 9323 2405

15238
PA-US
PIT

Unconnected Temp Thermometer ID

CF 0 Initials D

PT-10-20-001 (Rev. 1.0.0)



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: 0001/0001/0001

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
ACTUAL: 07/15/20
CONF: 0001

SATURDAY 12:00P
PRIORITY OVERNIGHT

1516 9323 2498
Metric# 1516 9323 2405

15238
PA-US
PIT

Unconnected Temp Thermometer ID

CF 0 Initials D

PT-10-20-001 (Rev. 1.0.0)

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 \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 <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: 103814

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.	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 \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 <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 \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 <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 </= 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: 180-103766-1

Login Number: 104107

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: 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

LINKS

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results through
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The
Expert**

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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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Lab Chronicle	10
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QC Association Summary	49
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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										

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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										

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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										

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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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

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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-4

Lab Sample ID: 180-103814-2

Date Collected: 03/18/20 14:50

Matrix: Water

Date Received: 03/20/20 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	0.226	U	0.284	0.286	5.00	0.428	pCi/L		04/16/20 10:11	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: 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

Lab Sample ID: 180-103979-1

Date Collected: 03/23/20 17:45

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	0.0240	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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

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

Lab Sample ID: 180-104069-1

Date Collected: 03/25/20 11:29

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	0.0494	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

Lab Sample ID: 180-104069-2

Date Collected: 03/25/20 09:15

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	0.551		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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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

Eurofins TestAmerica, Pittsburgh

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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
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	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	Limit
	Result	Qual		Result	Qual								
Radium-226	0.111	U	11.4	10.66		1.14	1.00	0.144	pCi/L	93	75 - 138	0.17	1
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	91.4		40 - 110										

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	Total	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
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	69.1		40 - 110							
								Prepared	Analyzed	Dil Fac
								04/03/20 08:51	04/27/20 07:47	1

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	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec.	Limits
		Result	Qual							
Radium-226	11.3	8.855		0.985	1.00	0.141	pCi/L	78	75 - 125	
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	76.8		40 - 110							

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	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec.	Limits
	Result	Qual		Result	Qual							
Radium-226	0.111	U	15.1	11.93		1.28	1.00	0.171	pCi/L	78	75 - 138	
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	98.2		40 - 110									

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	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	Limit
	Result	Qual		Result	Qual								
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 Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
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 Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
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 Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
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 Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
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

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 160-466133/1-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

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
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

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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 160-466715/1-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
										1
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

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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: 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
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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	

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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: 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	

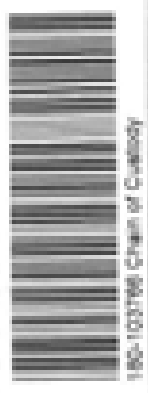
Regulatory Programs: Air Env Soil Other

Client Contact: **Logi Mountain** Site Contact: **Chris Toland** Date: **3/17/2020**
 Project Manager: **Deann Powell** Lab Contact: **Veronica Borkul** Carrier: **UPS**
 Toll Free: **248-531-3443**

Analysis Turnaround Time: 2 weeks 1 week 3 days 1 day

Sample Date: **3/17/2020** Sample Time: **14:25** Sample Type: **Water** Matrix: **Water** # of Containers: **4**

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Containers	Analysis	Method	Lab	Analyst	QC	Notes
SOV04-5	3/17/2020	14:25	Water	Water	4	SOV	SOV	4	X	X	SOV
SOV04-3	3/17/2020	15:38	Water	Water	4	SOV	SOV	4	X	X	SOV
SOV04-2	3/17/2020	14:30	Water	Water	4	SOV	SOV	4	X	X	SOV
SOV04-25	3/17/2020	15:45	Water	Water	4	SOV	SOV	4	X	X	SOV
FB-1147	3/17/2020	-	Water	Water	4	FB	FB	4	X	X	FB



Preservation Method: Ice, HD, H2SO4, HNO3, HClO4, Other

Sample Disposal: A fee may be assessed if samples are retained longer than 1 month

Special Instructions/OC Requirements & Comments:

Chain of Custody Seal No.: **3/18/20**

Prepared by: **Deann Powell** Date: **3/17/20**

Received by: **Chris Toland** Date: **3/18/20**

Signature: *[Signature]* Date: **3/18/20**

Signature: *[Signature]* Date: **3/18/20**

Form No. CA-C-08-003, Rev. 8.20, dated 2/28/2019



TestAmerica Pittsburgh
301 Alpha Drive
RDC Park
Pittsburgh, PA 15204-2907
Phone: 412.953.7058 Fax: 412.953.2468

601 Atlanta

Chain of Custody Record



TestAmerica Laboratories, Inc.

Client Contact: **Jay Abraham**
Southern Company
241 Ruffin Middle Blvd SE, R12185
Atlanta, GA 30338
Project Name: **CCR - West Scherer Ash Pond**
Site: **Georgia**
P O # 1801884

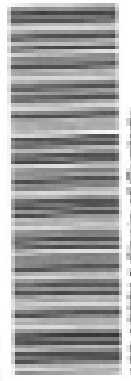
Regulatory Program: Air EPCRA RCRA Other

Project Manager: **Devin Prall**
Tel/Fax: **248-338-5445**

Analysis Turnaround Time:
 2 weeks
 3 weeks
 4 weeks
 5 weeks

Date: **3/18/2020**
Carrier: _____

Sample Identification	Sample Date	Sample Time	Sample Type (e.g., G, L, S)	# of Containers	# of Containers	Analysis Method				Sample Specific Notes
						GC	GC/MS	GC/MSD	GC/MSD/MS	
SO984-1	3/18/2020	14:50	G	4	4	X	X	X	X	GC/MS
SO984-4	3/18/2020	14:50	G	4	4	X	X	X	X	GC/MS
SO984-24	3/18/2020	13:22	G	4	4	X	X	X	X	GC/MS
FD-1 (MS)	3/18/2020	-	G	4	4	X	X	X	X	GC/MS
EB-1 (RP)	3/18/2020	16:00	G	4	4	X	X	X	X	GC/MS



180-103814 Chain of Custody

Preservation Used: Ice, Dry Ice, H2SO4, HNO3, H2O2, Other _____

Possible Hazardous Identification: _____

Are any samples from a failed 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/OC Requirements & Comments: _____

Custody Seal No.: _____

Company: **Southern**
Name: **Kathleen Cook**
Signature: *Kathleen Cook*

Date Time: **3/19/20 8:25**

Company: **Southern**
Name: **Kathleen Cook**
Signature: *Kathleen Cook*

Date Time: **3-19-20 8:25**

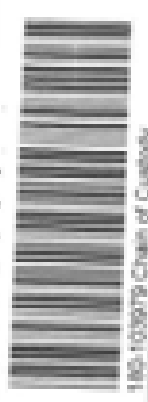
Company: **Southern**
Name: **Kathleen Cook**
Signature: *Kathleen Cook*

Date Time: **3-19-20 8:25**

Company: **Southern**
Name: **Kathleen Cook**
Signature: *Kathleen Cook*



Client Contact		Project Manager: Dawn Fyfe Tel/Fax: 248-924-6445		Site Contact: Chris Tibbitt Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Agri Abraham		Analytical Turnaround Time		Site Contact: Chris Tibbitt		Center: C-10300		COG No: 1 of 3 COGs	
Southern Company		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 3 weeks <input type="checkbox"/> 4 days <input type="checkbox"/> 1 day		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
241 Ralph McGill Blvd SE (E12116)		Sample Date		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Atlanta, GA 30338		Sample Time		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Project Name: CCR - Plant Ashes Ash Feed		Sample Type		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
State: Georgia		Sample Volume		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
P.O. # 1878884		Sample Matrix		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Sample Identification		Sample Matrix		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
S0002-19		Waste		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
S0002-20		Waste		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
S0002-21		Waste		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
EB-20A7		Waste		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
FD-20A7		Waste		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Preservation Used: In Box, In HD, In HD/CS, 40ml/60, amber/CS, or Other		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Possible Hazard Identification		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
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 Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
<input type="checkbox"/> In-Box <input type="checkbox"/> In-HD <input type="checkbox"/> In-HD/CS <input type="checkbox"/> In-40ml/60 <input type="checkbox"/> In-amber/CS <input type="checkbox"/> In-Other		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Special Instructions/CC Requirements & Comments		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Custody Seal Intact <input type="checkbox"/> No <input type="checkbox"/> Yes		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Seal Number: 3024-20 085		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Seal Number: 3024-20 085		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Seal Number: 3024-20 085		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	
Seal Number: 3024-20 085		Sample Disposed		Lab Contact: Veronica Borjas		Center: C-10300		COG No: 1 of 3 COGs	



9:49

Chain of Custody Record

TestAmerica Laboratories, Inc.

Regulatory Program: SW TSD RCRA Other

Client Contact: **Ugo Morahan**
Southern Company
241 Fifth Street Blvd SE, B1104B
Atlanta, GA 30309
Project Name: COA - Plant Screen Ash Pond
Site: Georgia
P O B 1907984

Project Manager: Dawn Freil
Tel/Fax: 248-834-8848

Site Contact: Chris Tidwell
Lab Contact: Vanessa Boring

Date: 3/25/20
Carrier:

COC No: 1 of 1 COCs

Sample: For Lab Use Only
Walk-in Client
Lab Sampling
Job ID: 850 No.

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	# of Containers	Analysis Turnaround Time	
						OC	GC
304-0000	12:02		G	Water	3	X	X
304-0000	12:06		G	Water	3	X	X
304-0000	08:48		G	Water	3	X	X
304-0000	08:30		G	Water	3	X	X

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Containers	OC	GC
304-0000	12:02		G	Water	3	X	X
304-0000	12:06		G	Water	3	X	X
304-0000	08:48		G	Water	3	X	X
304-0000	08:30		G	Water	3	X	X



Preservation Used: In Ice, In HCl, In HNO3, In-HClO4, In-H2O2, In-H2SO4, In Other
 Analytical Method 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.
 Recycled Reusable New Jar/Bag Unknown
 Special Instructions/OC Requirements & Comments:

Custody Seal No.	Company	Date/Time	Collector (C)	Client	Comments	Team ID No.
304-0000	Southern	3/25/20	Chris Tidwell	Ugo Morahan		
304-0000	Removal Now	3/25/20	Chris Tidwell	Ugo Morahan		
304-0000	Removal Now	3/25/20	Chris Tidwell	Ugo Morahan		


Signature: *Ugo Morahan*
 Signature: *Chris Tidwell*
 Date: 3/25/20
 Time: 8:12
 Signature: *Chris Tidwell*
 Date: 3/25/20
 Time: 8:12



Chain of Custody Record

Pittsburgh, PA 15228-2907
Phone 412.963.7050 Fax 412.963.3469

TestAmerica Laboratories, Inc.

Client Contact John Abraham Southern Company 241 Fifth Street Blvd SE B12145 Atlanta, GA 30308 Project Name: CCR - Plant Scherer Ash Pond Site: Georgia P O # 18019684		Regulatory Program: <input type="checkbox"/> SW <input type="checkbox"/> WQS <input type="checkbox"/> ILS <input type="checkbox"/> Other <input type="checkbox"/> Other		Site Contact: Chris Trivette Lab Contact: Yvonna Borbot		Date: 3/20/20 Carrier:		COC No.: 1 of 1 COCs Sampler: For Lab Use Only: Mark in Client: Lab Sampling: Job / SOG No.:	
Project Manager: Dawn Prall Tel/Fax: 48-938-5445 Analysis Turnaround Time: <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Identification		Sample Type (Column #) Matrix		Sample Time		# of Containers	
SOHC-8 SOHC-9 SOHC-10 SOHC-11 (B-3AP) (C-3AP)		G G G G G G		Water Water Water Water Water Water		11:20 09:15 09:18 11:00 11:58 11:40 -		3 3 3 3 3 3	
X X X X X X		X X X X X X		X X X X X X		X X X X X X		X X X X X X	
Sample Specific Notes: pH= 6.31 pH= 6.25 pH= 6.01 pH= 6.28 pH= 5.15		180-10-0089 Chain of Custody				180-10-0089 Chain of Custody		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):	
Preservation Used: 1= Ice, 2= HCl, 3= H3PO4, 4=HNO3, 5=H2O2, 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.		<input type="checkbox"/> Return to Client <input type="checkbox"/> Destroyed by Lab <input type="checkbox"/> Archived for Months		Cooler Temp. (°C) (°F): 0 (32)		Team ID No.:	
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Company: <i>Southern Co</i> Requested by: <i>Kelaine Cook</i> Acquired by: <i>[Signature]</i>		Date Recd: <i>3/20/20 8:15</i> Company: <i>Southern Co</i> Requested by: <i>Kelaine Cook</i> Acquired by: <i>[Signature]</i>		Date Recd: <i>3/20/20 8:15</i> Company: <i>Southern Co</i> Requested by: <i>Kelaine Cook</i> Acquired by: <i>[Signature]</i>		Date Recd: <i>3/20/20 8:15</i> Company: <i>Southern Co</i> Requested by: <i>Kelaine Cook</i> Acquired by: <i>[Signature]</i>		Date Recd: <i>3/20/20 8:15</i> Company: <i>Southern Co</i> Requested by: <i>Kelaine Cook</i> Acquired by: <i>[Signature]</i>	

Pittsburgh, PA 15226-2907
Phone 412 963 7058 Fax 412 963 2468

Regulatory Programs: Air Water SO₂ Other

TestAmerica Laboratories, Inc.

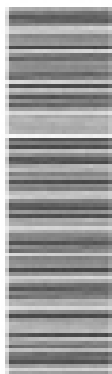
Client Contact Joju Abraham Southern Company 241 Ralph McGill Blvd SE, B10185 Atlanta, GA 30308		Project Manager: Dawn Prohl Tel/Fax: 248-526-5445		Date: 3/27/20 Carrier: <u>Cummins</u>		COC No: 1 of 1 COCs	
Site Contact: Chris Tibbalt		Lab Contact: Veronica Borstad		COC No: 1 of 1 COCs		Sampler: Per Lab Use Only Wash-in Client Lab Sampling:	
Project Name: CCR - Plant Scherer Ash Pond State: Georgia P O # 1507664		Analysis Turnaround Time <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 1 day		Test is allowed from time _____ to _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 1 day		Job / SOG No.:	
Sample Identification	Sample Date	Sample Time	Sample Type (e.g., Water, Soil)	Matrix	# of Cont.	Retention	Sample Specific Notes
SONC-13	3/27/2020	9:10	Water	Water	3	X	Site 5-09
SONC-14	3/27/2020	10:04	Water	Water	3	X	Site 5-24
SONC-15	3/27/2020	08:48	Water	Water	3	X	Site 4-51
SONC-16	3/27/2020	10:09	Water	Water	3	X	Site 5-17
Preservation Used: <input type="checkbox"/> Ice, <input type="checkbox"/> Ice/NaCl, <input type="checkbox"/> HCl, <input type="checkbox"/> H2SO4, <input type="checkbox"/> HNO3, <input type="checkbox"/> H2O2, <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"/> No Hazard <input type="checkbox"/> Specific <input type="checkbox"/> Ben. Intent <input type="checkbox"/> Power B <input type="checkbox"/> Unknown Special Instructions/OC Requirements & Comments							
Custody Seal Intial: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C) Client:		Therm ID No.:	
Integrity by: <u>Chris Tibbalt</u>		Company: <u>LabCorp</u>		Received by: <u>Veronica Borstad</u>		Company: <u>LabCorp</u>	
Integrity by: <u>[Signature]</u>		Company: <u>LabCorp</u>		Received by: <u>[Signature]</u>		Company: <u>LabCorp</u>	
Integrity by: <u>[Signature]</u>		Company: <u>LabCorp</u>		Received by: <u>[Signature]</u>		Company: <u>LabCorp</u>	





Environn
TestAmerica

ORIGIN: PULLMAN
COUNTRY: UNITED STATES
FEDERATION: TESTAMERICA
FACILITY: 15-16
LABORATORY: 15-16
UNITED STATES OF

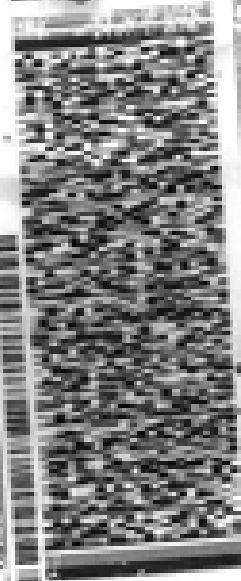


180-50798 Waybill

SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238

REP. SOUTHERN CO

FedEx



THU - 19 MAR 3
STANDARD WED

2 of 2
MREF 1516 9323 1951
MREF 1516 9323 1940

NA AGCA

Uncorrected temp
Thermometer ID
CF 0 Initials J



PT-1516-001 0308 11070

97

... for solvent testing
TestAmerica

REP. SOUTHERN CO

RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238

FedEx

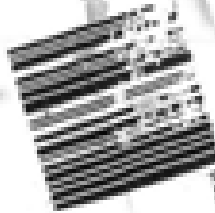


THU - 19 MAR 3:00P
STANDARD OVERNIGHT
15238
PIT

1 of 2
MREF 1516 9323 1940

NA AGCA

Uncorrected temp
Thermometer ID
CF 0 Initials J



PT-1516-001 0308 11070

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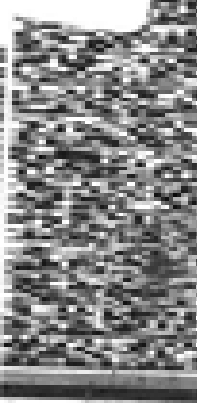
Environment TestAmerica

167

180 103814 Waybill
1516 9323 2054
1516 9323 2053

SAMPLE RECEIVING
EUROFINS TESTAMERICA
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: GOLDBERGER - SCHERER



FRI - 20 MAR 3:00P
STANDARD OVERNIGHT

2 of 3
1516 9323 2054
1516 9323 2053

NA AGCA

15238
PA - US
PIT

Uncorrected Temp
Thermometer ID
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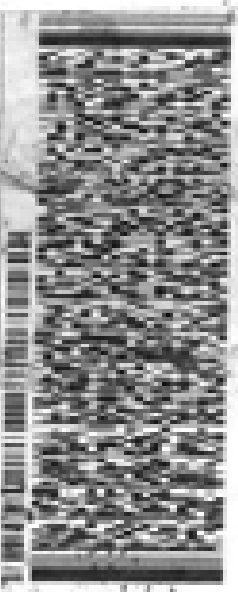


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TO SAMPLE RECEIVING
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 301 ALPHA DR.
 RIDG PARK
 PITTSBURGH PA 15238

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 REP: SOLDER - SCHERER



1 of 3
 FRI - 20 MAR
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 STANDARD OVERNIGHT

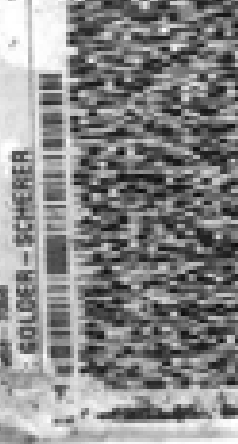
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 301 ALPHA DR.
 RIDG PARK
 PITTSBURGH PA 15238

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 REP: SOLDER - SCHERER



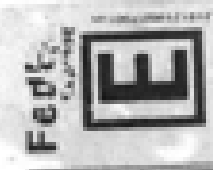
3 of 3
 FRI - 20 MAR 3:00P
 1516 9323 2075
 STANDARD OVERNIGHT

NA AGCA

Unconnected Temp
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Environment Testing
TestAmerica

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SHIP TIME: 11:00 AM
SHIP TO: 1516 9323 2248
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SHIP DATE: 03/24/20
SHIP TIME: 11:00 AM
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TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: GOLDBL - SCHERER



1 of 2
WED - 25 MAR
STANDARD OVERNIGHT

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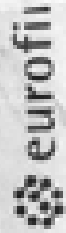


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TestAmerica

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TO SAMPLE RECEIVING
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301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

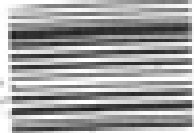
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2 of 2
WED - 25 MAR
STANDARD OVERNIGHT

1516 9323 2259
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15238
PIT



Uncorrected temp
Thermometer ID

CF Initials

PT 1516-001-001-001-11011

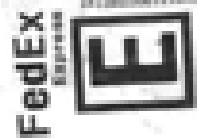
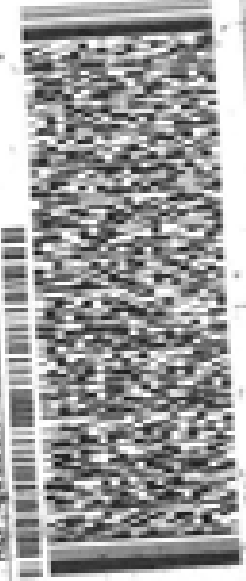
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SHIP TIME: 03:00 PM
SHIP METHOD: STANDARD OVERNIGHT
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TO: SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: GOLGER - SCHERER

1516 9323 2270



THU - 26 MAR 3:00P
STANDARD OVERNIGHT

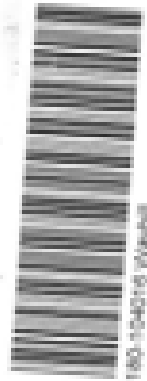
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NA AGCA

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Uncorrected temp
Thermometer ID

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180-184016 Wrapall

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eurofins

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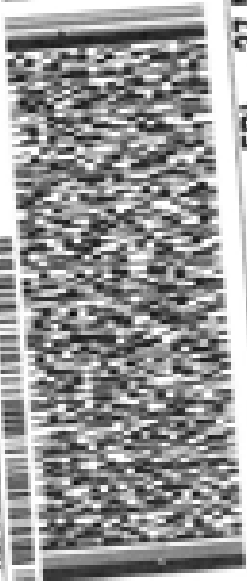
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BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: SOUTHERN CO



FRI - 27 MAR 3:00P
STANDARD OVERNIGHT

1 of 2
1516 9323 2410
Master # 1516 9323 2400

15238
PIT
PA-08

NA AGCA

Uncorrected temp
Thermometer ID

eurofins



150-10-0000 Master

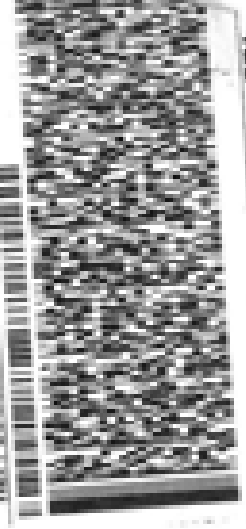
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BILL RECEIPT

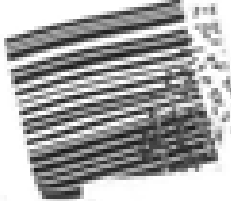
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

REF: SOUTHERN CO



FRI

1 of 2
1516 9323 2400
Master # 1516 9323 2400



15238
PIT
PA-08

NA AGCA

Uncorrected temp
Thermometer ID

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Environment Testing
TestAmerica

ORIGIN MAILING CENTER 866-8888
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SHIP DATE: 2/20/20
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TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH

301 ALPHA DR.

RIDC PARK

PITTSBURGH PA 15238

412 866-7000

REF: SOUTHERN CO



FedEx
Express



1 of 4

TRAY 1516 9323 2455

REF MASTER #

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Uncorrected temp

Thermometer ID

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PT 1516 9323 2455

PT 1516 9323 2455

SATURDAY 12:00L

PRIORITY OVERNIGHT

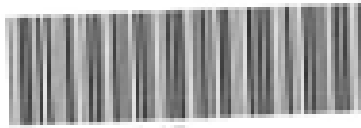
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PA-US PIT

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180-104107 2/20/20

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SHIP DATE: 2/20/20
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TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

412 866-7000
REF: SOUTHERN CO



FedEx
Express



2 of 4

TRAY 1516 9323 2476

Master 1516 9323 2466

XO AGCA

Uncorrected temp

Thermometer ID

CF 0 Initials R

PT 1516 9323 2466

PT 1516 9323 2466

SATURDAY 12:00P

PRIORITY OVERNIGHT

15238

PA-US PIT

4.1

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R



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Environment
TestAmerica

1200
4
639

ORIGIN: DALLAS (970) 998-0000
COUNTRY: USA
CITY: PITTSBURGH
STATE: PA
ZIP: 15238
UNITED STATES US

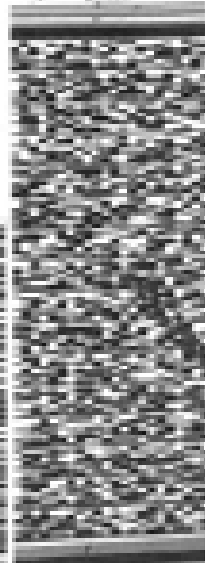
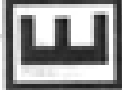
SHIP DATE: 07/04/20
ACTIVITY: 1510 LR
CITY: PITTSBURGH PA

BILL TO: RECIPIENT

TO: SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

9715 998-7008
REF: SOUTHERN 50

FedEx
Express

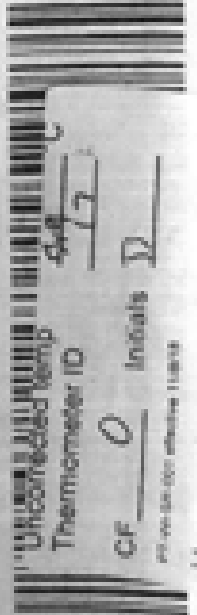


3 of 4 SATURDAY 12:00P
PRIORITY OVERNIGHT

MPN: 1516 9323 2487
CARE: 1516 9323 2485

XO AGCA

15238
PA-US PIT



Unconnected Temp
Thermometer ID
CF 0 Initials ID



Environment Testing
TestAmerica

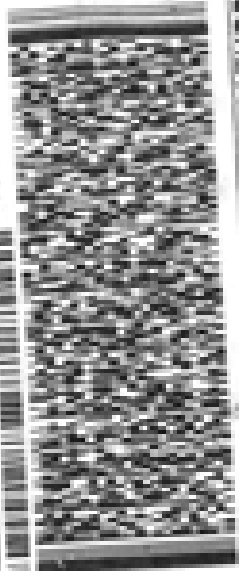
ORIGIN: DALLAS (970) 998-0000
COUNTRY: USA
CITY: PITTSBURGH
STATE: PA
ZIP: 15238
UNITED STATES US

SHIP DATE: 07/04/20
ACTIVITY: 1510 LR
CITY: PITTSBURGH PA

TO: SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

9715 998-7008
REF: SOUTHERN 50

FedEx
Express



4 of 4 SATURDAY 12:00P
PRIORITY OVERNIGHT

MPN: 1516 9323 2498
CARE: 1516 9323 2485

XO A

Unconnected Temp
Thermometer ID
CF 0 Initials ID

15238
PA-US PIT



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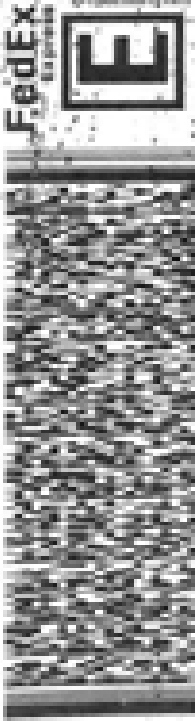
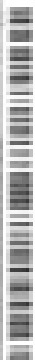


Environment Testing
TestAmerica

ORIGIN BILLING (678) 866-8881
SHIP DATE: 07/06/20
ACTIVITY: 10 AM
ONLY READING/CONFIRM
BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

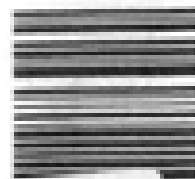
(412) 960-3000
REF: SOUTHERN CO



1 of 4
TRK# 1516 9323 2465
#0001
#0 MASTER #0
SATURDAY 12:00P
PRIORITY OVERNIGHT

15238
PA-US
PIT

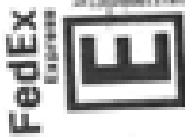
Uncorrected temp 4.1 °C
Thermometer ID 17
CF 0 Initials IL
PT-99-00-001 effective 1/0/00



ORIGIN BILLING (678) 866-8881
SHIP DATE: 07/06/20
ACTIVITY: 10 AM
ONLY READING/CONFIRM
BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 960-3000
REF: SOUTHERN CO



2 of 4
TRK# 1516 9323 2476
#0001
#0 MASTER 1516 9323 2465
SATURDAY 12:00P
PRIORITY OVERNIGHT

15238
PA-US
PIT

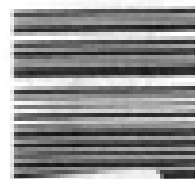
Corrected temp 4.1 °C
Thermometer ID 17
CF 0 Initials IL
PT-99-00-001 effective 1/0/00



1 of 4
TRK# 1516 9323 2465
#0001
#0 MASTER #0
SATURDAY 12:00P
PRIORITY OVERNIGHT

15238
PA-US
PIT

Uncorrected temp 4.1 °C
Thermometer ID 17
CF 0 Initials IL
PT-99-00-001 effective 1/0/00



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Environment
TestAmerica

1200
639

ORDER FULLY (FORM 999-9999)
ORDER FULLY (FORM 999-9999)
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ORDER FULLY (FORM 999-9999)

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

400 999-7000
REF: SOUTHERN 90



FedEx
Express



3 of 4
SHIP DATE: 12/08
SHIP TO: 1516 9323 2487
PRIORITY OVERNIGHT
SATURDAY 12:00P

1516 9323 2405

XO AGCA

15238
PA-US
PIT

Unconnected Temp Thermometer ID
CF 0 Initials D
12/08

12/08 12:00P



Environment Testing
TestAmerica

ORDER FULLY (FORM 999-9999)
ORDER FULLY (FORM 999-9999)
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ORDER FULLY (FORM 999-9999)

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

400 999-7000
REF: SOUTHERN 90



FedEx
Express



4 of 4
SHIP DATE: 12/08
SHIP TO: 1516 9323 2498
PRIORITY OVERNIGHT
SATURDAY 12:00P

1516 9323 2405

XO A

15238
PA-US
PIT

Unconnected Temp Thermometer ID
CF 0 Initials D
12/08

12/08 12:00P

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 \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 <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 \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.	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 \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.	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 $<6\text{mm}$ (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: 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 \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 <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 \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 <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 < /= 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	

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 <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: 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 \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.	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 \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 <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 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 \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.	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 \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 <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 \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 <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 \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 <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

SUPPLEMENTAL SAMPLING

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-104219-1
Client Project/Site: Plant Scherer PZ Wells

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
5/7/2020 9:45:37 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

LINKS

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The
Expert**

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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 PZ Wells

Job ID: 180-104219-1

Job ID: 180-104219-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-104219-1**

Receipt

The samples were received on 4/2/2020 8:30 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.3°C

Department HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Department Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Department General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Department Field Service / Mobile Lab

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 PZ Wells

Job ID: 180-104219-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
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.

Metals

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.

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 PZ Wells

Job ID: 180-104219-1

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 PZ Wells

Job ID: 180-104219-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-104219-1	PZ-52	Water	03/31/20 11:55	04/02/20 08:30	
180-104219-2	PZ-53	Water	03/31/20 14:44	04/02/20 08:30	
180-104219-3	PZ-54	Water	03/31/20 14:28	04/02/20 08:30	
180-104219-4	PZ-55	Water	03/31/20 15:47	04/02/20 08:30	
180-104219-5	FD-2	Water	03/31/20 00:00	04/02/20 08:30	
180-104219-6	FB-2	Water	03/31/20 14:25	04/02/20 08:30	
180-104219-7	EB-2	Water	03/31/20 15:50	04/02/20 08:30	

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- 5
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- 10
- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

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 PZ Wells

Job ID: 180-104219-1

Client Sample ID: PZ-52

Lab Sample ID: 180-104219-1

Date Collected: 03/31/20 11:55

Matrix: Water

Date Received: 04/02/20 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			312641	04/11/20 12:56	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312130	04/06/20 10:07	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313249	04/17/20 12:25	RJR	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 16:26	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311964	04/03/20 08:19	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			312189	03/31/20 11:55	FDS	TAL PIT

Client Sample ID: PZ-53

Lab Sample ID: 180-104219-2

Date Collected: 03/31/20 14:44

Matrix: Water

Date Received: 04/02/20 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			312641	04/11/20 13:12	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312130	04/06/20 10:07	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313249	04/17/20 12:28	RJR	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 16:27	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311964	04/03/20 08:19	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			312189	03/31/20 14:44	FDS	TAL PIT

Client Sample ID: PZ-54

Lab Sample ID: 180-104219-3

Date Collected: 03/31/20 14:28

Matrix: Water

Date Received: 04/02/20 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			312641	04/11/20 13:27	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312130	04/06/20 10:07	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313249	04/17/20 12:30	RJR	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 16:28	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Client Sample ID: PZ-54

Date Collected: 03/31/20 14:28

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-3

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	311964	04/03/20 08:19	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			312189	03/31/20 14:28	FDS	TAL PIT

Client Sample ID: PZ-55

Date Collected: 03/31/20 15:47

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-4

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: CHICS2100B		1			312641	04/11/20 14:46	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312130	04/06/20 10:07	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313249	04/17/20 12:33	RJR	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 16:29	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311964	04/03/20 08:19	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			312189	03/31/20 15:47	FDS	TAL PIT

Client Sample ID: FD-2

Date Collected: 03/31/20 00:00

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-5

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: CHICS2100B		1			312641	04/11/20 08:58	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	312130	04/06/20 10:07	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313249	04/17/20 12:35	RJR	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 16:32	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	311964	04/03/20 08:19	AVS	TAL PIT

Client Sample ID: FB-2

Date Collected: 03/31/20 14:25

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-6

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			312641	04/11/20 08:27	MJH	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Client Sample ID: FB-2

Date Collected: 03/31/20 14:25

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-6

Matrix: Water

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	312130	04/06/20 10:07	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313249	04/17/20 12:42	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	311987	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312179	04/06/20 16:33	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311964	04/03/20 08:19	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-2

Date Collected: 03/31/20 15:50

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-7

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		1			312641	04/11/20 08:42	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	312130	04/06/20 10:07	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313249	04/17/20 12:45	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	311987	04/03/20 18:00	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			312179	04/06/20 16:34	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	311964	04/03/20 08:19	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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

RJR = Ron Rosenbaum

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Client Sample ID: PZ-52

Lab Sample ID: 180-104219-1

Date Collected: 03/31/20 11:55

Matrix: Water

Date Received: 04/02/20 08:30

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			04/11/20 12:56	1
Fluoride	<0.026		0.10	0.026	mg/L			04/11/20 12:56	1
Sulfate	71		1.0	0.38	mg/L			04/11/20 12:56	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		04/06/20 10:07	04/17/20 12:25	1
Barium	0.092		0.010	0.0016	mg/L		04/06/20 10:07	04/17/20 12:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/06/20 10:07	04/17/20 12:25	1
Boron	0.48		0.080	0.039	mg/L		04/06/20 10:07	04/17/20 12:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/20 10:07	04/17/20 12:25	1
Calcium	39		0.50	0.13	mg/L		04/06/20 10:07	04/17/20 12:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/20 10:07	04/17/20 12:25	1
Cobalt	0.0064		0.0025	0.00013	mg/L		04/06/20 10:07	04/17/20 12:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/06/20 10:07	04/17/20 12:25	1
Lithium	0.022		0.0050	0.0034	mg/L		04/06/20 10:07	04/17/20 12:25	1
Molybdenum	0.00064 J		0.015	0.00061	mg/L		04/06/20 10:07	04/17/20 12:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/06/20 10:07	04/17/20 12:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/06/20 10:07	04/17/20 12:25	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		04/03/20 18:00	04/06/20 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		10	10	mg/L			04/03/20 08:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			03/31/20 11:55	1

Client Sample ID: PZ-53

Lab Sample ID: 180-104219-2

Date Collected: 03/31/20 14:44

Matrix: Water

Date Received: 04/02/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		1.0	0.32	mg/L			04/11/20 13:12	1
Fluoride	<0.026		0.10	0.026	mg/L			04/11/20 13:12	1
Sulfate	1.7		1.0	0.38	mg/L			04/11/20 13:12	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		04/06/20 10:07	04/17/20 12:28	1
Barium	0.034		0.010	0.0016	mg/L		04/06/20 10:07	04/17/20 12:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/06/20 10:07	04/17/20 12:28	1
Boron	<0.039		0.080	0.039	mg/L		04/06/20 10:07	04/17/20 12:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/20 10:07	04/17/20 12:28	1
Calcium	4.9		0.50	0.13	mg/L		04/06/20 10:07	04/17/20 12:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/20 10:07	04/17/20 12:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Client Sample ID: PZ-53
Date Collected: 03/31/20 14:44
Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-2
Matrix: Water

Method: EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0063		0.0025	0.00013	mg/L		04/06/20 10:07	04/17/20 12:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/06/20 10:07	04/17/20 12:28	1
Lithium	0.0044	J	0.0050	0.0034	mg/L		04/06/20 10:07	04/17/20 12:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/20 10:07	04/17/20 12:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/06/20 10:07	04/17/20 12:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/06/20 10:07	04/17/20 12:28	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		04/03/20 18:00	04/06/20 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	35		10	10	mg/L			04/03/20 08:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.54				SU			03/31/20 14:44	1

Client Sample ID: PZ-54
Date Collected: 03/31/20 14:28
Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-3
Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		1.0	0.32	mg/L			04/11/20 13:27	1
Fluoride	<0.026		0.10	0.026	mg/L			04/11/20 13:27	1
Sulfate	7.0		1.0	0.38	mg/L			04/11/20 13:27	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		04/06/20 10:07	04/17/20 12:30	1
Barium	0.043		0.010	0.0016	mg/L		04/06/20 10:07	04/17/20 12:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/06/20 10:07	04/17/20 12:30	1
Boron	<0.039		0.080	0.039	mg/L		04/06/20 10:07	04/17/20 12:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/20 10:07	04/17/20 12:30	1
Calcium	7.4		0.50	0.13	mg/L		04/06/20 10:07	04/17/20 12:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/20 10:07	04/17/20 12:30	1
Cobalt	0.0026		0.0025	0.00013	mg/L		04/06/20 10:07	04/17/20 12:30	1
Lead	0.00025	J	0.0010	0.00013	mg/L		04/06/20 10:07	04/17/20 12:30	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/06/20 10:07	04/17/20 12:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/20 10:07	04/17/20 12:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/06/20 10:07	04/17/20 12:30	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/06/20 10:07	04/17/20 12:30	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		04/03/20 18:00	04/06/20 16:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Client Sample ID: PZ-54
Date Collected: 03/31/20 14:28
Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		10	10	mg/L			04/03/20 08:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.97				SU			03/31/20 14:28	1

Client Sample ID: PZ-55
Date Collected: 03/31/20 15:47
Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-4
Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.32	mg/L			04/11/20 14:46	1
Fluoride	0.035	J	0.10	0.026	mg/L			04/11/20 14:46	1
Sulfate	5.6		1.0	0.38	mg/L			04/11/20 14:46	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		04/06/20 10:07	04/17/20 12:33	1
Barium	0.049		0.010	0.0016	mg/L		04/06/20 10:07	04/17/20 12:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/06/20 10:07	04/17/20 12:33	1
Boron	<0.039		0.080	0.039	mg/L		04/06/20 10:07	04/17/20 12:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/20 10:07	04/17/20 12:33	1
Calcium	17		0.50	0.13	mg/L		04/06/20 10:07	04/17/20 12:33	1
Chromium	0.0025		0.0020	0.0015	mg/L		04/06/20 10:07	04/17/20 12:33	1
Cobalt	0.00071	J	0.0025	0.00013	mg/L		04/06/20 10:07	04/17/20 12:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/06/20 10:07	04/17/20 12:33	1
Lithium	0.0054		0.0050	0.0034	mg/L		04/06/20 10:07	04/17/20 12:33	1
Molybdenum	0.0024	J	0.015	0.00061	mg/L		04/06/20 10:07	04/17/20 12:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/06/20 10:07	04/17/20 12:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/06/20 10:07	04/17/20 12:33	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 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			04/03/20 08:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.83				SU			03/31/20 15:47	1

Client Sample ID: FD-2
Date Collected: 03/31/20 00:00
Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-5
Matrix: Water

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			04/11/20 08:58	1
Fluoride	<0.026	F1	0.10	0.026	mg/L			04/11/20 08:58	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Client Sample ID: FD-2

Lab Sample ID: 180-104219-5

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/02/20 08:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	72	F1	1.0	0.38	mg/L			04/11/20 08:58	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		04/06/20 10:07	04/17/20 12:35	1
Barium	0.095		0.010	0.0016	mg/L		04/06/20 10:07	04/17/20 12:35	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/06/20 10:07	04/17/20 12:35	1
Boron	0.45		0.080	0.039	mg/L		04/06/20 10:07	04/17/20 12:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/20 10:07	04/17/20 12:35	1
Calcium	39		0.50	0.13	mg/L		04/06/20 10:07	04/17/20 12:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/20 10:07	04/17/20 12:35	1
Cobalt	0.0064		0.0025	0.00013	mg/L		04/06/20 10:07	04/17/20 12:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/06/20 10:07	04/17/20 12:35	1
Lithium	0.018		0.0050	0.0034	mg/L		04/06/20 10:07	04/17/20 12:35	1
Molybdenum	0.00071	J	0.015	0.00061	mg/L		04/06/20 10:07	04/17/20 12:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/06/20 10:07	04/17/20 12:35	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/06/20 10:07	04/17/20 12:35	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		04/03/20 18:00	04/06/20 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		10	10	mg/L			04/03/20 08:19	1

Client Sample ID: FB-2

Lab Sample ID: 180-104219-6

Date Collected: 03/31/20 14:25

Matrix: Water

Date Received: 04/02/20 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			04/11/20 08:27	1
Fluoride	<0.026		0.10	0.026	mg/L			04/11/20 08:27	1
Sulfate	<0.38		1.0	0.38	mg/L			04/11/20 08:27	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		04/06/20 10:07	04/17/20 12:42	1
Barium	<0.0016		0.010	0.0016	mg/L		04/06/20 10:07	04/17/20 12:42	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/06/20 10:07	04/17/20 12:42	1
Boron	<0.039		0.080	0.039	mg/L		04/06/20 10:07	04/17/20 12:42	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/20 10:07	04/17/20 12:42	1
Calcium	<0.13		0.50	0.13	mg/L		04/06/20 10:07	04/17/20 12:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/20 10:07	04/17/20 12:42	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/06/20 10:07	04/17/20 12:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/06/20 10:07	04/17/20 12:42	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/06/20 10:07	04/17/20 12:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/20 10:07	04/17/20 12:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/06/20 10:07	04/17/20 12:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/06/20 10:07	04/17/20 12:42	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Client Sample ID: FB-2

Date Collected: 03/31/20 14:25

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-6

Matrix: Water

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 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/20 08:19	1

Client Sample ID: EB-2

Date Collected: 03/31/20 15:50

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-7

Matrix: Water

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			04/11/20 08:42	1
Fluoride	<0.026		0.10	0.026	mg/L			04/11/20 08:42	1
Sulfate	0.46	J	1.0	0.38	mg/L			04/11/20 08:42	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		04/06/20 10:07	04/17/20 12:45	1
Barium	<0.0016		0.010	0.0016	mg/L		04/06/20 10:07	04/17/20 12:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/06/20 10:07	04/17/20 12:45	1
Boron	<0.039		0.080	0.039	mg/L		04/06/20 10:07	04/17/20 12:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/20 10:07	04/17/20 12:45	1
Calcium	<0.13		0.50	0.13	mg/L		04/06/20 10:07	04/17/20 12:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/20 10:07	04/17/20 12:45	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/06/20 10:07	04/17/20 12:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/06/20 10:07	04/17/20 12:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/06/20 10:07	04/17/20 12:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/20 10:07	04/17/20 12:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/06/20 10:07	04/17/20 12:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/06/20 10:07	04/17/20 12:45	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		04/03/20 18:00	04/06/20 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/20 08:19	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-312641/6
Matrix: Water
Analysis Batch: 312641

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			04/11/20 07:55	1
Fluoride	<0.026		0.10	0.026	mg/L			04/11/20 07:55	1
Sulfate	<0.38		1.0	0.38	mg/L			04/11/20 07:55	1

Lab Sample ID: LCS 180-312641/5
Matrix: Water
Analysis Batch: 312641

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	2.44		mg/L		98	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: 180-104219-5 MS
Matrix: Water
Analysis Batch: 312641

Client Sample ID: FD-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10		25.0	35.2		mg/L		100	80 - 120
Fluoride	<0.026	F1	1.25	1.00		mg/L		80	80 - 120
Sulfate	72	F1	25.0	94.0		mg/L		88	80 - 120

Lab Sample ID: 180-104219-5 MSD
Matrix: Water
Analysis Batch: 312641

Client Sample ID: FD-2
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	33.8		mg/L		94	80 - 120	4	20
Fluoride	<0.026	F1	1.25	0.956	F1	mg/L		76	80 - 120	5	20
Sulfate	72	F1	25.0	90.0	F1	mg/L		72	80 - 120	4	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-312130/1-A
Matrix: Water
Analysis Batch: 313249

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 312130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/06/20 10:07	04/17/20 11:58	1
Barium	<0.0016		0.010	0.0016	mg/L		04/06/20 10:07	04/17/20 11:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/06/20 10:07	04/17/20 11:58	1
Boron	<0.039		0.080	0.039	mg/L		04/06/20 10:07	04/17/20 11:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/20 10:07	04/17/20 11:58	1
Calcium	<0.13		0.50	0.13	mg/L		04/06/20 10:07	04/17/20 11:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/20 10:07	04/17/20 11:58	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/06/20 10:07	04/17/20 11:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/06/20 10:07	04/17/20 11:58	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/06/20 10:07	04/17/20 11:58	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/20 10:07	04/17/20 11:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/06/20 10:07	04/17/20 11:58	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-312130/1-A
Matrix: Water
Analysis Batch: 313249

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 312130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00015		0.0010	0.00015	mg/L		04/06/20 10:07	04/17/20 11:58	1

Lab Sample ID: LCS 180-312130/2-A
Matrix: Water
Analysis Batch: 313249

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 312130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.936		mg/L		94	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.484		mg/L		97	80 - 120
Boron	1.25	1.23		mg/L		98	80 - 120
Cadmium	0.500	0.502		mg/L		100	80 - 120
Calcium	25.0	23.4		mg/L		93	80 - 120
Chromium	0.500	0.504		mg/L		101	80 - 120
Cobalt	0.500	0.462		mg/L		92	80 - 120
Lead	0.500	0.500		mg/L		100	80 - 120
Lithium	0.500	0.477		mg/L		95	80 - 120
Molybdenum	0.500	0.512		mg/L		102	80 - 120
Selenium	1.00	0.996		mg/L		100	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: 180-104199-E-1-B MS
Matrix: Water
Analysis Batch: 313249

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 312130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00031		1.00	0.912		mg/L		91	75 - 125
Barium	0.013		1.00	1.06		mg/L		105	75 - 125
Beryllium	0.00026	J	0.500	0.498		mg/L		100	75 - 125
Boron	<0.039		1.25	1.26		mg/L		101	75 - 125
Cadmium	<0.00022		0.500	0.512		mg/L		102	75 - 125
Calcium	25		25.0	49.6		mg/L		98	75 - 125
Chromium	<0.0015		0.500	0.525		mg/L		105	75 - 125
Cobalt	0.019		0.500	0.475		mg/L		91	75 - 125
Lead	<0.00013		0.500	0.502		mg/L		100	75 - 125
Lithium	0.0036	J	0.500	0.479		mg/L		95	75 - 125
Molybdenum	0.0020	J	0.500	0.514		mg/L		103	75 - 125
Selenium	<0.0015		1.00	1.02		mg/L		102	75 - 125
Thallium	0.00016	J	1.00	1.03		mg/L		103	75 - 125

Lab Sample ID: 180-104199-E-1-C MSD
Matrix: Water
Analysis Batch: 313249

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 312130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00031		1.00	0.911		mg/L		91	75 - 125	0	20
Barium	0.013		1.00	1.06		mg/L		105	75 - 125	0	20
Beryllium	0.00026	J	0.500	0.487		mg/L		97	75 - 125	2	20
Boron	<0.039		1.25	1.24		mg/L		99	75 - 125	2	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-104199-E-1-C MSD
Matrix: Water
Analysis Batch: 313249

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 312130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	<0.00022		0.500	0.521		mg/L		104	75 - 125	2	20
Calcium	25		25.0	48.7		mg/L		95	75 - 125	2	20
Chromium	<0.0015		0.500	0.529		mg/L		106	75 - 125	1	20
Cobalt	0.019		0.500	0.473		mg/L		91	75 - 125	1	20
Lead	<0.00013		0.500	0.510		mg/L		102	75 - 125	2	20
Lithium	0.0036	J	0.500	0.486		mg/L		96	75 - 125	1	20
Molybdenum	0.0020	J	0.500	0.516		mg/L		103	75 - 125	0	20
Selenium	<0.0015		1.00	1.05		mg/L		105	75 - 125	3	20
Thallium	0.00016	J	1.00	1.07		mg/L		107	75 - 125	4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-311964/2
Matrix: Water
Analysis Batch: 311964

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			04/03/20 08:19	1

Lab Sample ID: LCS 180-311964/1
Matrix: Water
Analysis Batch: 311964

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	202		mg/L		83	80 - 120

Lab Sample ID: 180-104219-1 DU
Matrix: Water
Analysis Batch: 311964

Client Sample ID: PZ-52
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	270		264		mg/L		2	10

Lab Sample ID: 180-104219-5 DU
Matrix: Water
Analysis Batch: 311964

Client Sample ID: FD-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	250		265		mg/L		4	10

QC Association Summary

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

HPLC/IC

Analysis Batch: 312641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total/NA	Water	EPA 300.0 R2.1	
180-104219-2	PZ-53	Total/NA	Water	EPA 300.0 R2.1	
180-104219-3	PZ-54	Total/NA	Water	EPA 300.0 R2.1	
180-104219-4	PZ-55	Total/NA	Water	EPA 300.0 R2.1	
180-104219-5	FD-2	Total/NA	Water	EPA 300.0 R2.1	
180-104219-6	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-104219-7	EB-2	Total/NA	Water	EPA 300.0 R2.1	
MB 180-312641/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-312641/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-104219-5 MS	FD-2	Total/NA	Water	EPA 300.0 R2.1	
180-104219-5 MSD	FD-2	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 311987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total/NA	Water	7470A	
180-104219-2	PZ-53	Total/NA	Water	7470A	
180-104219-3	PZ-54	Total/NA	Water	7470A	
180-104219-4	PZ-55	Total/NA	Water	7470A	
180-104219-5	FD-2	Total/NA	Water	7470A	
180-104219-6	FB-2	Total/NA	Water	7470A	
180-104219-7	EB-2	Total/NA	Water	7470A	

Prep Batch: 312130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total Recoverable	Water	3005A	
180-104219-2	PZ-53	Total Recoverable	Water	3005A	
180-104219-3	PZ-54	Total Recoverable	Water	3005A	
180-104219-4	PZ-55	Total Recoverable	Water	3005A	
180-104219-5	FD-2	Total Recoverable	Water	3005A	
180-104219-6	FB-2	Total Recoverable	Water	3005A	
180-104219-7	EB-2	Total Recoverable	Water	3005A	
MB 180-312130/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-312130/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-104199-E-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
180-104199-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 312179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total/NA	Water	EPA 7470A	311987
180-104219-2	PZ-53	Total/NA	Water	EPA 7470A	311987
180-104219-3	PZ-54	Total/NA	Water	EPA 7470A	311987
180-104219-4	PZ-55	Total/NA	Water	EPA 7470A	311987
180-104219-5	FD-2	Total/NA	Water	EPA 7470A	311987
180-104219-6	FB-2	Total/NA	Water	EPA 7470A	311987
180-104219-7	EB-2	Total/NA	Water	EPA 7470A	311987

Analysis Batch: 313249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total Recoverable	Water	EPA 6020B	312130

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-1

Metals (Continued)

Analysis Batch: 313249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-2	PZ-53	Total Recoverable	Water	EPA 6020B	312130
180-104219-3	PZ-54	Total Recoverable	Water	EPA 6020B	312130
180-104219-4	PZ-55	Total Recoverable	Water	EPA 6020B	312130
180-104219-5	FD-2	Total Recoverable	Water	EPA 6020B	312130
180-104219-6	FB-2	Total Recoverable	Water	EPA 6020B	312130
180-104219-7	EB-2	Total Recoverable	Water	EPA 6020B	312130
MB 180-312130/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	312130
LCS 180-312130/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	312130
180-104199-E-1-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	312130
180-104199-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	312130

General Chemistry

Analysis Batch: 311964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total/NA	Water	SM 2540C	
180-104219-2	PZ-53	Total/NA	Water	SM 2540C	
180-104219-3	PZ-54	Total/NA	Water	SM 2540C	
180-104219-4	PZ-55	Total/NA	Water	SM 2540C	
180-104219-5	FD-2	Total/NA	Water	SM 2540C	
180-104219-6	FB-2	Total/NA	Water	SM 2540C	
180-104219-7	EB-2	Total/NA	Water	SM 2540C	
MB 180-311964/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-311964/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-104219-1 DU	PZ-52	Total/NA	Water	SM 2540C	
180-104219-5 DU	FD-2	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 312189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total/NA	Water	Field Sampling	
180-104219-2	PZ-53	Total/NA	Water	Field Sampling	
180-104219-3	PZ-54	Total/NA	Water	Field Sampling	
180-104219-4	PZ-55	Total/NA	Water	Field Sampling	

Regulatory Programs: DE SD BCL Other

Client Contact: **Southern Company**
 Project Name: **CCR - Plant Scherer Ash Pond**
 Site: **Georgia**
 Project No: **19019884**

Project Manager: **Deann Friel**
 Tel/Fax: **248-534-9448**

Site Contact: **Chris Tibbitt**
 Lab Contact: **Vernonica Borstel**

Date: **3/31/20**
 Carrier:

COC No: _____ of _____ COCs

Sampler: _____
 For Lab Use Only:
 Wash-in Client: _____
 Lab Sampling: _____

Job / SOG No.: _____

Sample ID: _____
 Sample Specifics: _____

Site: _____
 Date: _____

Time: _____

Temperature: _____

Location: _____

Operator: _____

Sampler: _____

Volume: _____

Container: _____

Preservation Used: Ice HCl HNO3 H2SO4 H2O2 None

Preserve 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/COC Requirements & Comments: _____

COC Status: Original Duplicate Other

Collected, Each Initial: Yes No

Company Seal No.: _____

Company: **Golder**

Prepared by: **Edyone Cook**

Reviewed by: **Edyone Cook**

Approved by: **Edyone Cook**

Company Seal No.: _____

Form No. CA-COC-001, Rev. 4.05, dated 2/23/2019





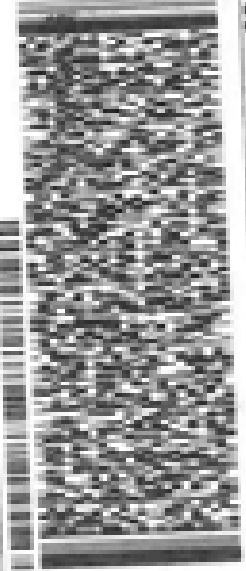
Environment Testing
TestAmerica

Part # 102482-014 RTT EXP 01/20 12

ORDER # 101174 (CEN) REF-0001
SHIP DATE: 01/20/20
ACTIVITY: 46, 03, 13
CEN# 80811604E0012
BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

1420 800-7048
REF: SOUTHERN CO



THU - 02 APR 3:00P
STANDARD OVERNIGHT

2 of 2
MPS# 1516 9323 2671
Master 1516 9323 2000

NA AGCA

Uncorrected temp 11.3 °C
Thermometer ID 17
CF 0 Initials TS



15238
180-104219-V0404



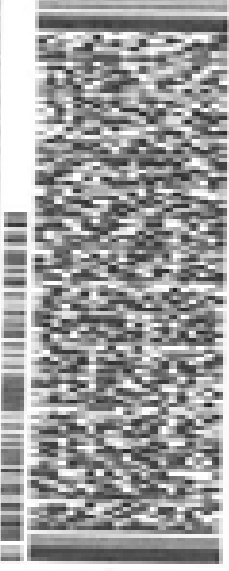
Environment Testing
TestAmerica

1516
15/08
15/08

ORDER # 101174 (CEN) REF-0001
SHIP DATE: 01/20/20
ACTIVITY: 46, 03, 13
CEN# 80811604E0012
BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

1420 800-7048
REF: SOUTHERN CO



THU - 02 A
STANDARD OV

1 of 2
MPS# 1516 9323 2660

NA AGCA

Uncorrected temp 11.3 °C
Thermometer ID 17
CF 0 Initials TS

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-104219-1

Login Number: 104219

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 <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: 180-104219-2
Client Project/Site: Plant Scherer PZ Wells

For:
Southern Company
PO BOX 2641 GSC8
Birmingham, Alabama 35291

Attn: Ms. Lauren Petty



Authorized for release by:
5/7/2020 9:46:05 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

LINKS

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results through
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The
Expert**

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www.eurofinsus.com/ETM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Job ID: 180-104219-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-104219-2

Comments

No additional comments.

Receipt

The samples were received on 4/2/2020 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 1.3° C.

RAD

Methods 903.0, 9315: Ra-226 Prep Batch 160-467125

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.

PZ-52 (180-104219-1), PZ-53 (180-104219-2), PZ-54 (180-104219-3), PZ-55 (180-104219-4), FD-2 (180-104219-5), FB-2 (180-104219-6), EB-2 (180-104219-7), (LCS 160-467125/1-A), (MB 160-467125/22-A)

Methods 904.0, 9320: Radium-228 Prep Batch 160-467127

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.

PZ-52 (180-104219-1), PZ-53 (180-104219-2), PZ-54 (180-104219-3), PZ-55 (180-104219-4), FD-2 (180-104219-5), FB-2 (180-104219-6), EB-2 (180-104219-7), (LCS 160-467127/1-A) and (MB 160-467127/22-A)

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 PZ Wells

Job ID: 180-104219-2

Qualifiers

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)
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 PZ Wells

Job ID: 180-104219-2

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 PZ Wells

Job ID: 180-104219-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-104219-1	PZ-52	Water	03/31/20 11:55	04/02/20 08:30	
180-104219-2	PZ-53	Water	03/31/20 14:44	04/02/20 08:30	
180-104219-3	PZ-54	Water	03/31/20 14:28	04/02/20 08:30	
180-104219-4	PZ-55	Water	03/31/20 15:47	04/02/20 08:30	
180-104219-5	FD-2	Water	03/31/20 00:00	04/02/20 08:30	
180-104219-6	FB-2	Water	03/31/20 14:25	04/02/20 08:30	
180-104219-7	EB-2	Water	03/31/20 15:50	04/02/20 08:30	

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Method Summary

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

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 PZ Wells

Job ID: 180-104219-2

Client Sample ID: PZ-52

Lab Sample ID: 180-104219-1

Date Collected: 03/31/20 11:55

Matrix: Water

Date Received: 04/02/20 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			1000.94 mL	1.0 g	467125	04/08/20 06:27	RBR	TAL SL
Total/NA	Analysis	9315		1			469211	04/30/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.94 mL	1.0 g	467127	04/08/20 06:57	RBR	TAL SL
Total/NA	Analysis	9320		1			468616	04/22/20 16:43	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			469234	04/30/20 10:00	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: PZ-53

Lab Sample ID: 180-104219-2

Date Collected: 03/31/20 14:44

Matrix: Water

Date Received: 04/02/20 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			1000.61 mL	1.0 g	467125	04/08/20 06:27	RBR	TAL SL
Total/NA	Analysis	9315		1			469211	04/30/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.61 mL	1.0 g	467127	04/08/20 06:57	RBR	TAL SL
Total/NA	Analysis	9320		1			468616	04/22/20 16:44	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			469234	04/30/20 10:00	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: PZ-54

Lab Sample ID: 180-104219-3

Date Collected: 03/31/20 14:28

Matrix: Water

Date Received: 04/02/20 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			1000.32 mL	1.0 g	467125	04/08/20 06:27	RBR	TAL SL
Total/NA	Analysis	9315		1			469211	04/30/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.32 mL	1.0 g	467127	04/08/20 06:57	RBR	TAL SL
Total/NA	Analysis	9320		1			468616	04/22/20 16:44	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			469234	04/30/20 10:00	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: PZ-55

Lab Sample ID: 180-104219-4

Date Collected: 03/31/20 15:47

Matrix: Water

Date Received: 04/02/20 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			1000.23 mL	1.0 g	467125	04/08/20 06:27	RBR	TAL SL
Total/NA	Analysis	9315		1			469211	04/30/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Client Sample ID: PZ-55

Date Collected: 03/31/20 15:47

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.23 mL	1.0 g	467127	04/08/20 06:57	RBR	TAL SL
Total/NA	Analysis	9320		1			468616	04/22/20 16:44	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			469234	04/30/20 10:00	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FD-2

Date Collected: 03/31/20 00:00

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.24 mL	1.0 g	467125	04/08/20 06:27	RBR	TAL SL
Total/NA	Analysis	9315		1			469211	04/30/20 04:55	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.24 mL	1.0 g	467127	04/08/20 06:57	RBR	TAL SL
Total/NA	Analysis	9320		1			468616	04/22/20 16:44	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			469234	04/30/20 10:00	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2

Date Collected: 03/31/20 14:25

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.27 mL	1.0 g	467125	04/08/20 06:27	RBR	TAL SL
Total/NA	Analysis	9315		1			469211	04/30/20 04:55	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	467127	04/08/20 06:57	RBR	TAL SL
Total/NA	Analysis	9320		1			468616	04/22/20 16:44	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			469234	04/30/20 10:00	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2

Date Collected: 03/31/20 15:50

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.10 mL	1.0 g	467125	04/08/20 06:27	RBR	TAL SL
Total/NA	Analysis	9315		1			469211	04/30/20 06:41	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.10 mL	1.0 g	467127	04/08/20 06:57	RBR	TAL SL
Total/NA	Analysis	9320		1			468616	04/22/20 16:44	AJD	TAL SL
Instrument ID: GFPCORANGE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Client Sample ID: EB-2

Lab Sample ID: 180-104219-7

Date Collected: 03/31/20 15:50

Matrix: Water

Date Received: 04/02/20 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	Ra226_Ra228		1			469234	04/30/20 10:00	SMP	TAL SL

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

RBR = Rachael Ratcliff

Batch Type: Analysis

AJD = Audra DeMariano

CJQ = Caleb Quinn

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Client Sample ID: PZ-52

Lab Sample ID: 180-104219-1

Date Collected: 03/31/20 11:55

Matrix: Water

Date Received: 04/02/20 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	0.0770	U	0.0853	0.0856	1.00	0.137	pCi/L	04/08/20 06:27	04/30/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		40 - 110					04/08/20 06:27	04/30/20 04:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.153	U	0.248	0.249	1.00	0.421	pCi/L	04/08/20 06:57	04/22/20 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		40 - 110					04/08/20 06:57	04/22/20 16:43	1
Y Carrier	87.9		40 - 110					04/08/20 06:57	04/22/20 16:43	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	0.230	U	0.262	0.263	5.00	0.421	pCi/L		04/30/20 10:00	1

Client Sample ID: PZ-53

Lab Sample ID: 180-104219-2

Date Collected: 03/31/20 14:44

Matrix: Water

Date Received: 04/02/20 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	0.111		0.0783	0.0790	1.00	0.109	pCi/L	04/08/20 06:27	04/30/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					04/08/20 06:27	04/30/20 04:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.175	U	0.229	0.229	1.00	0.381	pCi/L	04/08/20 06:57	04/22/20 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					04/08/20 06:57	04/22/20 16:44	1
Y Carrier	87.1		40 - 110					04/08/20 06:57	04/22/20 16:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Client Sample ID: PZ-53
Date Collected: 03/31/20 14:44
Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-2
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	0.286	U	0.242	0.242	5.00	0.381	pCi/L		04/30/20 10:00	1

Client Sample ID: PZ-54
Date Collected: 03/31/20 14:28
Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-3
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	0.126	U	0.0899	0.0906	1.00	0.130	pCi/L	04/08/20 06:27	04/30/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					04/08/20 06:27	04/30/20 04:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.292	0.293	1.00	0.479	pCi/L	04/08/20 06:57	04/22/20 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					04/08/20 06:57	04/22/20 16:44	1
Y Carrier	71.0		40 - 110					04/08/20 06:57	04/22/20 16:44	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	0.386	U	0.306	0.307	5.00	0.479	pCi/L		04/30/20 10:00	1

Client Sample ID: PZ-55
Date Collected: 03/31/20 15:47
Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-4
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	0.114	U	0.0846	0.0852	1.00	0.120	pCi/L	04/08/20 06:27	04/30/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110					04/08/20 06:27	04/30/20 04:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Client Sample ID: PZ-55

Lab Sample ID: 180-104219-4

Date Collected: 03/31/20 15:47

Matrix: Water

Date Received: 04/02/20 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	0.160	U	0.240	0.240	1.00	0.403	pCi/L	04/08/20 06:57	04/22/20 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110					04/08/20 06:57	04/22/20 16:44	1
Y Carrier	84.1		40 - 110					04/08/20 06:57	04/22/20 16:44	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	0.274	U	0.254	0.255	5.00	0.403	pCi/L		04/30/20 10:00	1

Client Sample ID: FD-2

Lab Sample ID: 180-104219-5

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/02/20 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	0.138		0.0953	0.0961	1.00	0.135	pCi/L	04/08/20 06:27	04/30/20 04:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					04/08/20 06:27	04/30/20 04:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.442		0.272	0.275	1.00	0.414	pCi/L	04/08/20 06:57	04/22/20 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					04/08/20 06:57	04/22/20 16:44	1
Y Carrier	88.6		40 - 110					04/08/20 06:57	04/22/20 16:44	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	0.580		0.288	0.291	5.00	0.414	pCi/L		04/30/20 10:00	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Client Sample ID: FB-2

Date Collected: 03/31/20 14:25

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-6

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	0.0457	U	0.0756	0.0757	1.00	0.131	pCi/L	04/08/20 06:27	04/30/20 04:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					04/08/20 06:27	04/30/20 04:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.116	U	0.282	0.282	1.00	0.482	pCi/L	04/08/20 06:57	04/22/20 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					04/08/20 06:57	04/22/20 16:44	1
Y Carrier	89.3		40 - 110					04/08/20 06:57	04/22/20 16:44	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	0.162	U	0.292	0.292	5.00	0.482	pCi/L		04/30/20 10:00	1

Client Sample ID: EB-2

Date Collected: 03/31/20 15:50

Date Received: 04/02/20 08:30

Lab Sample ID: 180-104219-7

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	-0.0230	U	0.0449	0.0449	1.00	0.108	pCi/L	04/08/20 06:27	04/30/20 06:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					04/08/20 06:27	04/30/20 06:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0995	U	0.250	0.250	1.00	0.431	pCi/L	04/08/20 06:57	04/22/20 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.2		40 - 110					04/08/20 06:57	04/22/20 16:44	1
Y Carrier	85.2		40 - 110					04/08/20 06:57	04/22/20 16:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Client Sample ID: EB-2

Lab Sample ID: 180-104219-7

Date Collected: 03/31/20 15:50

Matrix: Water

Date Received: 04/02/20 08:30

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	0.0764	U	0.254	0.254	5.00	0.431	pCi/L		04/30/20 10:00	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Sample Results

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-467125/22-A
Matrix: Water
Analysis Batch: 469211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 467125

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01842	U	0.0583	0.0583	1.00	0.125	pCi/L	04/08/20 06:27	04/30/20 06:42	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					04/08/20 06:27	04/30/20 06:42	1
	95.7									

Lab Sample ID: LCS 160-467125/1-A
Matrix: Water
Analysis Batch: 469211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467125

Analyte	LCS LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					
Radium-226			11.3	9.134		0.971	1.00	0.105	pCi/L	80	75 - 125
Carrier	LCS LCS		Limits								
Ba Carrier	%Yield	Qualifier	40 - 110								
	97.9										

Lab Sample ID: 180-104189-G-6-A DU
Matrix: Water
Analysis Batch: 469211

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 467125

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit	
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Radium-226	0.243		0.3777		0.168	1.00	0.197	pCi/L	0.47	1	
Carrier	DU DU		Limits								
Ba Carrier	%Yield	Qualifier	40 - 110								
	85.9										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-467127/22-A
Matrix: Water
Analysis Batch: 468616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 467127

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1352	U	0.239	0.239	1.00	0.405	pCi/L	04/08/20 06:57	04/22/20 16:45	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					04/08/20 06:57	04/22/20 16:45	1
Y Carrier	89.0		40 - 110					04/08/20 06:57	04/22/20 16:45	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-467127/1-A
Matrix: Water
Analysis Batch: 468601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467127

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.91	9.214		1.09	1.00	0.431	pCi/L	103	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	97.9		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: 180-104189-G-6-B DU
Matrix: Water
Analysis Batch: 468616

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 467127

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.197	U	0.2280	U	0.296	1.00	0.492	pCi/L	0.05	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.9		40 - 110
Y Carrier	87.5		40 - 110

QC Association Summary

Client: Southern Company
Project/Site: Plant Scherer PZ Wells

Job ID: 180-104219-2

Rad

Prep Batch: 467125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total/NA	Water	PrecSep-21	
180-104219-2	PZ-53	Total/NA	Water	PrecSep-21	
180-104219-3	PZ-54	Total/NA	Water	PrecSep-21	
180-104219-4	PZ-55	Total/NA	Water	PrecSep-21	
180-104219-5	FD-2	Total/NA	Water	PrecSep-21	
180-104219-6	FB-2	Total/NA	Water	PrecSep-21	
180-104219-7	EB-2	Total/NA	Water	PrecSep-21	
MB 160-467125/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-467125/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-104189-G-6-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 467127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-104219-1	PZ-52	Total/NA	Water	PrecSep_0	
180-104219-2	PZ-53	Total/NA	Water	PrecSep_0	
180-104219-3	PZ-54	Total/NA	Water	PrecSep_0	
180-104219-4	PZ-55	Total/NA	Water	PrecSep_0	
180-104219-5	FD-2	Total/NA	Water	PrecSep_0	
180-104219-6	FB-2	Total/NA	Water	PrecSep_0	
180-104219-7	EB-2	Total/NA	Water	PrecSep_0	
MB 160-467127/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-467127/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-104189-G-6-B DU	Duplicate	Total/NA	Water	PrecSep_0	

Preservation Used: 1= Ice, 2= HCl, 3= HNO3, 4=H2SO4, 5=NaOH, 6= Other

Provide 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/OC Requirements & Comments:

Cooling, Seal Intact Yes No

Sealed by: _____

Sealed Date: _____

Sealed Time: _____

Sealed Location: _____

Sealed Operator: _____

Sealed Collector: _____

Sealed Transporter: _____

Sealed Storage: _____

Sealed Analysis: _____

Sealed Reporting: _____

Sealed Archiving: _____

Sealed Disposal: _____

Sealed Retention: _____

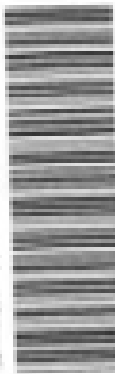
Sealed Destruction: _____

Sealed Archiving: _____

Sealed Disposal: _____

Sealed Retention: _____

Sealed Destruction: _____



180-104219 Chain of Custody

Sample Disposed (A fee may be assessed if samples are retained longer than 1 month)

Returned to Lab Returned to Client Other _____

Cooler Temp. (C): _____ Cooler ID No: _____

Company: _____

Operator: _____

Collector: _____

Transporter: _____

Storage: _____

Analysis: _____

Reporting: _____

Archiving: _____

Disposal: _____

Retention: _____

Destruction: _____

Archiving: _____

Disposal: _____

Retention: _____



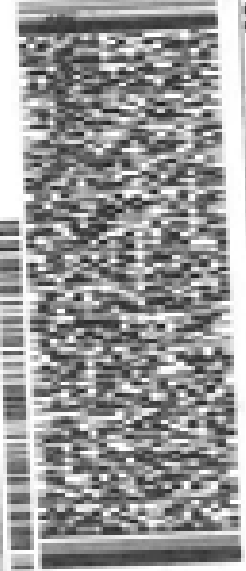
Environment Testing
TestAmerica

Part # 102482-014 RTT EXP 01/20 12

ORDER # 1041274 (FORM 999-9991)
SHIP DATE: 01/20/20
ACTIVITY: 44, 03, 13
CART: 80811604E0012
BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

1432 993-3048
REF: SOUTHERN CO



THU - 02 APR 3:00P
STANDARD OVERNIGHT

2 of 2
MPS# 1516 9323 2671
Master 1516 9323 2668

NA AGCA

Uncorrected temp 11.3 °C
Thermometer ID 17
CF 0 Initials TS



15238

PA-US

180-104219-V0404



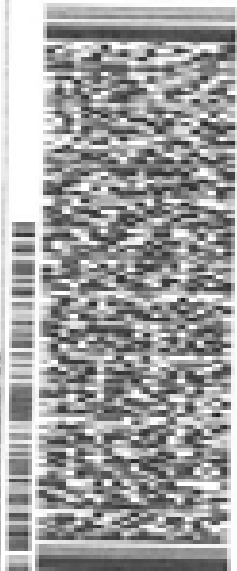
Environment Testing
TestAmerica

197

ORDER # 1041274 (FORM 999-9991)
SHIP DATE: 01/20/20
ACTIVITY: 44, 03, 13
CART: 80811604E0012
BILL RECEIPT

TO SAMPLE RECEIVING
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301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

1432 993-3048
REF: SOUTHERN CO



THU - 02 A
STANDARD OV

1 of 2
MPS# 1516 9323 2660

NA AGCA

Uncorrected temp 11.3 °C
Thermometer ID 17
CF 0 Initials TS

- 1
- 2
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- 7
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- 12
- 13

Chain of Custody Record



Environmental Testing
 TestAmerica

Client Information (Sub Contract Lab) Client: TestAmerica Laboratories, Inc. Address: 13715 Roper Trail North, Suite 2000, Beltsville, MD, 20845 Contact: (301) 299-8556 (Tel) 301-299-8737 (Fax)		Lab No: 180-104219-1 Page 1 of 1																																																																																																																																																																																																																																																																																																															
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181. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
182. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
183. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
184. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
185. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
186. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
187. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
188. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
189. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
190. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
191. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
192. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
193. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
194. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
195. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
196. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
197. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
198. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
199. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
200. Bacteriology, or Bacteriological	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																																																																																																																																																																																																																															
Special Instructions: (If any)																																																																																																																																																																																																																																																																																																																	
Signature of Client: <i>[Signature]</i> Date: 11/11/18																																																																																																																																																																																																																																																																																																																	
Signature of Lab: <i>[Signature]</i> Date: 11/11/18																																																																																																																																																																																																																																																																																																																	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-104219-2

Login Number: 104219

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: 180-104219-2

Login Number: 104219

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/07/20 03:36 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.	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	



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM

Certifies That

02-00416

Eurofins TestAmerica Laboratories Pittsburgh

301 Alpha Drive, Pittsburgh, PA, 15238

Having duly met the requirement of

The act of June 29, 2002 (P.L. 596, No. 90)

dealing with Environmental Laboratories Accreditation

(27 Pa. C.S. 4104-4113) and the

National Environmental Laboratory Accreditation Program Standard

is hereby approved as an

Accredited Laboratory

to conduct analysis within the fields of accreditations more fully described in the attached Scope of Accreditation

NELAP accreditation granted by the PA DEP to an environmental laboratory is conditioned upon continued compliance with the current edition of the NELAC Standard or TNI Standard and the following Subchapters and Sections of 25 Pa. Code Chapter 252: Subchapter A (relating to general provisions); Subchapter B (relating to application, fees and supporting documents); Subchapter E (relating to proficiency test study requirements); Subchapter F (relating to assessment requirements); Subchapter G (relating to miscellaneous provisions); Section 252.307; and Section 252.401.

Expiration Date: **04/30/2021**

Certificate Number: **017**



Dana T. Marshall, Acting Chief
Laboratory Accreditation Program
Bureau of Laboratories



Continued accreditation status depends on successful ongoing participation in the program
Certificate not transferable Surrender upon revocation
To be conspicuously displayed at the Laboratory
Not valid unless accompanied by a valid Scope of Accreditation
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania
Customers are urged to verify the laboratory's current accreditation status
PA DEP is a NELAP recognized accreditation body



Attached to Certificate of Accreditation 018-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15213
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TN02151
PAQWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary Scale	Effective Date
111.001		Asbestos in Drinking Water	11.11	UA	03/14/14
111.002		Asbestos	11.11	UA	03/14/14
112.001	4	Barium	11.11	UA	03/14/14
112.002		Cadmium	11.11	UA	03/14/14
112.003		Chloride (as chloride ion) (residual chlorine)	11.11	UA	03/14/14
112.004		Chloride (as chloride ion)	11.11	UA	03/14/14
112.005	4	Copper	11.11	UA	03/14/14
112.006	2	Cyanide (total)	11.11	UA	03/14/14
112.007	4	Fluoride (as fluoride ion)	11.11	UA	03/14/14
112.008	4	Iron	11.11	UA	03/14/14
112.009	4	Manganese	11.11	UA	03/14/14
112.010	4	Nitrite	11.11	UA	03/14/14
112.011	4	Nitrate	11.11	UA	03/14/14
112.012	4	Phosphate	11.11	UA	03/14/14
112.013	4	Sulfate	11.11	UA	03/14/14
112.014	4	Vanadium	11.11	UA	03/14/14
112.015	4	Zinc	11.11	UA	03/14/14
113.001	4	Barium	11.11	UA	03/14/14
113.002	4	Cadmium	11.11	UA	03/14/14
113.003	4	Copper	11.11	UA	03/14/14
113.004	4	Iron	11.11	UA	03/14/14
113.005	4	Manganese	11.11	UA	03/14/14
113.006	4	Nickel	11.11	UA	03/14/14
113.007	4	Selenium	11.11	UA	03/14/14
113.008	4	Silver	11.11	UA	03/14/14
113.009	4	Sulfur	11.11	UA	03/14/14
113.010	4	Zinc	11.11	UA	03/14/14
114.001	4	Aluminum	11.11	UA	03/14/14
114.002	4	Chromium	11.11	UA	03/14/14
114.003	4	Cobalt	11.11	UA	03/14/14
114.004	4	Copper	11.11	UA	03/14/14
114.005	4	Lead	11.11	UA	03/14/14
114.006	4	Nickel	11.11	UA	03/14/14
114.007	4	Selenium	11.11	UA	03/14/14
114.008	4	Silver	11.11	UA	03/14/14
114.009	4	Sulfur	11.11	UA	03/14/14
114.010	4	Zinc	11.11	UA	03/14/14
114.011	4	Zinc	11.11	UA	03/14/14
114.012	4	Zinc	11.11	UA	03/14/14
114.013	4	Zinc	11.11	UA	03/14/14
114.014	4	Zinc	11.11	UA	03/14/14
114.015	4	Zinc	11.11	UA	03/14/14
114.016	4	Zinc	11.11	UA	03/14/14
114.017	4	Zinc	11.11	UA	03/14/14
114.018	4	Zinc	11.11	UA	03/14/14
114.019	4	Zinc	11.11	UA	03/14/14
114.020	4	Zinc	11.11	UA	03/14/14
114.021	4	Zinc	11.11	UA	03/14/14
114.022	4	Zinc	11.11	UA	03/14/14
114.023	4	Zinc	11.11	UA	03/14/14
114.024	4	Zinc	11.11	UA	03/14/14
114.025	4	Zinc	11.11	UA	03/14/14
114.026	4	Zinc	11.11	UA	03/14/14
114.027	4	Zinc	11.11	UA	03/14/14
114.028	4	Zinc	11.11	UA	03/14/14
114.029	4	Zinc	11.11	UA	03/14/14
114.030	4	Zinc	11.11	UA	03/14/14
114.031	4	Zinc	11.11	UA	03/14/14
114.032	4	Zinc	11.11	UA	03/14/14
114.033	4	Zinc	11.11	UA	03/14/14
114.034	4	Zinc	11.11	UA	03/14/14
114.035	4	Zinc	11.11	UA	03/14/14
114.036	4	Zinc	11.11	UA	03/14/14
114.037	4	Zinc	11.11	UA	03/14/14
114.038	4	Zinc	11.11	UA	03/14/14
114.039	4	Zinc	11.11	UA	03/14/14
114.040	4	Zinc	11.11	UA	03/14/14
114.041	4	Zinc	11.11	UA	03/14/14
114.042	4	Zinc	11.11	UA	03/14/14
114.043	4	Zinc	11.11	UA	03/14/14
114.044	4	Zinc	11.11	UA	03/14/14
114.045	4	Zinc	11.11	UA	03/14/14
114.046	4	Zinc	11.11	UA	03/14/14
114.047	4	Zinc	11.11	UA	03/14/14
114.048	4	Zinc	11.11	UA	03/14/14
114.049	4	Zinc	11.11	UA	03/14/14
114.050	4	Zinc	11.11	UA	03/14/14
114.051	4	Zinc	11.11	UA	03/14/14
114.052	4	Zinc	11.11	UA	03/14/14
114.053	4	Zinc	11.11	UA	03/14/14
114.054	4	Zinc	11.11	UA	03/14/14
114.055	4	Zinc	11.11	UA	03/14/14
114.056	4	Zinc	11.11	UA	03/14/14
114.057	4	Zinc	11.11	UA	03/14/14
114.058	4	Zinc	11.11	UA	03/14/14
114.059	4	Zinc	11.11	UA	03/14/14
114.060	4	Zinc	11.11	UA	03/14/14
114.061	4	Zinc	11.11	UA	03/14/14
114.062	4	Zinc	11.11	UA	03/14/14
114.063	4	Zinc	11.11	UA	03/14/14
114.064	4	Zinc	11.11	UA	03/14/14
114.065	4	Zinc	11.11	UA	03/14/14
114.066	4	Zinc	11.11	UA	03/14/14
114.067	4	Zinc	11.11	UA	03/14/14
114.068	4	Zinc	11.11	UA	03/14/14
114.069	4	Zinc	11.11	UA	03/14/14
114.070	4	Zinc	11.11	UA	03/14/14
114.071	4	Zinc	11.11	UA	03/14/14
114.072	4	Zinc	11.11	UA	03/14/14
114.073	4	Zinc	11.11	UA	03/14/14
114.074	4	Zinc	11.11	UA	03/14/14
114.075	4	Zinc	11.11	UA	03/14/14
114.076	4	Zinc	11.11	UA	03/14/14
114.077	4	Zinc	11.11	UA	03/14/14
114.078	4	Zinc	11.11	UA	03/14/14
114.079	4	Zinc	11.11	UA	03/14/14
114.080	4	Zinc	11.11	UA	03/14/14
114.081	4	Zinc	11.11	UA	03/14/14
114.082	4	Zinc	11.11	UA	03/14/14
114.083	4	Zinc	11.11	UA	03/14/14
114.084	4	Zinc	11.11	UA	03/14/14
114.085	4	Zinc	11.11	UA	03/14/14
114.086	4	Zinc	11.11	UA	03/14/14
114.087	4	Zinc	11.11	UA	03/14/14
114.088	4	Zinc	11.11	UA	03/14/14
114.089	4	Zinc	11.11	UA	03/14/14
114.090	4	Zinc	11.11	UA	03/14/14
114.091	4	Zinc	11.11	UA	03/14/14
114.092	4	Zinc	11.11	UA	03/14/14
114.093	4	Zinc	11.11	UA	03/14/14
114.094	4	Zinc	11.11	UA	03/14/14
114.095	4	Zinc	11.11	UA	03/14/14
114.096	4	Zinc	11.11	UA	03/14/14
114.097	4	Zinc	11.11	UA	03/14/14
114.098	4	Zinc	11.11	UA	03/14/14
114.099	4	Zinc	11.11	UA	03/14/14
114.100	4	Zinc	11.11	UA	03/14/14

Lorraine Boach



Attached to Certificate of Accreditation D18-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurolina TestAmerica Laboratories Pittsburgh
101 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-02416
EPA Lab Code: PA02164
TRI Code: TA102154
RADIMS ID: 02416

Metals: Non-Potable Water

Method	Revised	Analyte	Accreditation Type	Primary State	Effective Date
119.004	14	Arsenic	SI, MS	PA	04/14/2019
119.007	14	Cadmium	SI, MS	PA	04/14/2019
119.008	14	Chromium	SI, MS	PA	04/14/2019
119.011	14	Copper	SI, MS	PA	04/14/2019
119.014	14	Iron	SI, MS	PA	04/14/2019
119.022	14	Manganese	SI, MS	PA	04/14/2019
119.024	14	Nickel	SI, MS	PA	04/14/2019
119.027	14	Lead	SI, MS	PA	04/14/2019
119.031	14	Mercury	SI, MS	PA	04/14/2019
119.033	14	Selenium	SI, MS	PA	04/14/2019
119.034	14	Silver	SI, MS	PA	04/14/2019
119.035	14	Zinc	SI, MS	PA	04/14/2019
119.037	14	Aluminum	SI, MS	PA	04/14/2019
119.047	14	Barium	SI, MS	PA	04/14/2019
119.049	14	Boron	SI, MS	PA	04/14/2019
119.052	14	Calcium	SI, MS	PA	04/14/2019
119.053	14	Magnesium	SI, MS	PA	04/14/2019
119.054	14	Sulfate	SI, MS	PA	04/14/2019
119.055	14	Total Hardness	SI, MS	PA	04/14/2019
119.056	14	Total Solids	SI, MS	PA	04/14/2019
119.057	14	Total Suspended Solids	SI, MS	PA	04/14/2019
119.058	14	Total Dissolved Solids	SI, MS	PA	04/14/2019
119.061	14	Fluoride	SI, MS	PA	04/14/2019
119.062	14	Strontium	SI, MS	PA	04/14/2019
119.063	14	Vanadium	SI, MS	PA	04/14/2019
119.064	14	Chloride	SI, MS	PA	04/14/2019
119.065	14	Nitrate	SI, MS	PA	04/14/2019
119.066	14	Nitrite	SI, MS	PA	04/14/2019
119.067	14	Ammonia	SI, MS	PA	04/14/2019
119.068	14	Ammonium	SI, MS	PA	04/14/2019
119.069	14	Phosphate	SI, MS	PA	04/14/2019
119.070	14	Orthophosphate	SI, MS	PA	04/14/2019
119.071	14	Uranium	SI, MS	PA	04/14/2019
119.072	14	Thoron	SI, MS	PA	04/14/2019
119.073	14	Radium	SI, MS	PA	04/14/2019
119.074	14	Radon	SI, MS	PA	04/14/2019
119.075	14	Radon	SI, MS	PA	04/14/2019
119.076	14	Radon	SI, MS	PA	04/14/2019
119.077	14	Radon	SI, MS	PA	04/14/2019
119.078	14	Radon	SI, MS	PA	04/14/2019
119.079	14	Radon	SI, MS	PA	04/14/2019
119.080	14	Radon	SI, MS	PA	04/14/2019
119.081	14	Radon	SI, MS	PA	04/14/2019
119.082	14	Radon	SI, MS	PA	04/14/2019
119.083	14	Radon	SI, MS	PA	04/14/2019
119.084	14	Radon	SI, MS	PA	04/14/2019
119.085	14	Radon	SI, MS	PA	04/14/2019
119.086	14	Radon	SI, MS	PA	04/14/2019
119.087	14	Radon	SI, MS	PA	04/14/2019
119.088	14	Radon	SI, MS	PA	04/14/2019
119.089	14	Radon	SI, MS	PA	04/14/2019
119.090	14	Radon	SI, MS	PA	04/14/2019
119.091	14	Radon	SI, MS	PA	04/14/2019
119.092	14	Radon	SI, MS	PA	04/14/2019
119.093	14	Radon	SI, MS	PA	04/14/2019
119.094	14	Radon	SI, MS	PA	04/14/2019
119.095	14	Radon	SI, MS	PA	04/14/2019
119.096	14	Radon	SI, MS	PA	04/14/2019
119.097	14	Radon	SI, MS	PA	04/14/2019
119.098	14	Radon	SI, MS	PA	04/14/2019
119.099	14	Radon	SI, MS	PA	04/14/2019
119.100	14	Radon	SI, MS	PA	04/14/2019
119.101	14	Radon	SI, MS	PA	04/14/2019
119.102	14	Radon	SI, MS	PA	04/14/2019
119.103	14	Radon	SI, MS	PA	04/14/2019
119.104	14	Radon	SI, MS	PA	04/14/2019
119.105	14	Radon	SI, MS	PA	04/14/2019
119.106	14	Radon	SI, MS	PA	04/14/2019
119.107	14	Radon	SI, MS	PA	04/14/2019
119.108	14	Radon	SI, MS	PA	04/14/2019
119.109	14	Radon	SI, MS	PA	04/14/2019
119.110	14	Radon	SI, MS	PA	04/14/2019
119.111	14	Radon	SI, MS	PA	04/14/2019
119.112	14	Radon	SI, MS	PA	04/14/2019
119.113	14	Radon	SI, MS	PA	04/14/2019
119.114	14	Radon	SI, MS	PA	04/14/2019
119.115	14	Radon	SI, MS	PA	04/14/2019
119.116	14	Radon	SI, MS	PA	04/14/2019
119.117	14	Radon	SI, MS	PA	04/14/2019
119.118	14	Radon	SI, MS	PA	04/14/2019
119.119	14	Radon	SI, MS	PA	04/14/2019
119.120	14	Radon	SI, MS	PA	04/14/2019
119.121	14	Radon	SI, MS	PA	04/14/2019
119.122	14	Radon	SI, MS	PA	04/14/2019
119.123	14	Radon	SI, MS	PA	04/14/2019
119.124	14	Radon	SI, MS	PA	04/14/2019
119.125	14	Radon	SI, MS	PA	04/14/2019
119.126	14	Radon	SI, MS	PA	04/14/2019
119.127	14	Radon	SI, MS	PA	04/14/2019
119.128	14	Radon	SI, MS	PA	04/14/2019
119.129	14	Radon	SI, MS	PA	04/14/2019
119.130	14	Radon	SI, MS	PA	04/14/2019
119.131	14	Radon	SI, MS	PA	04/14/2019
119.132	14	Radon	SI, MS	PA	04/14/2019
119.133	14	Radon	SI, MS	PA	04/14/2019
119.134	14	Radon	SI, MS	PA	04/14/2019
119.135	14	Radon	SI, MS	PA	04/14/2019
119.136	14	Radon	SI, MS	PA	04/14/2019
119.137	14	Radon	SI, MS	PA	04/14/2019
119.138	14	Radon	SI, MS	PA	04/14/2019
119.139	14	Radon	SI, MS	PA	04/14/2019
119.140	14	Radon	SI, MS	PA	04/14/2019
119.141	14	Radon	SI, MS	PA	04/14/2019
119.142	14	Radon	SI, MS	PA	04/14/2019
119.143	14	Radon	SI, MS	PA	04/14/2019
119.144	14	Radon	SI, MS	PA	04/14/2019
119.145	14	Radon	SI, MS	PA	04/14/2019
119.146	14	Radon	SI, MS	PA	04/14/2019
119.147	14	Radon	SI, MS	PA	04/14/2019
119.148	14	Radon	SI, MS	PA	04/14/2019
119.149	14	Radon	SI, MS	PA	04/14/2019
119.150	14	Radon	SI, MS	PA	04/14/2019
119.151	14	Radon	SI, MS	PA	04/14/2019
119.152	14	Radon	SI, MS	PA	04/14/2019
119.153	14	Radon	SI, MS	PA	04/14/2019
119.154	14	Radon	SI, MS	PA	04/14/2019
119.155	14	Radon	SI, MS	PA	04/14/2019
119.156	14	Radon	SI, MS	PA	04/14/2019
119.157	14	Radon	SI, MS	PA	04/14/2019
119.158	14	Radon	SI, MS	PA	04/14/2019
119.159	14	Radon	SI, MS	PA	04/14/2019
119.160	14	Radon	SI, MS	PA	04/14/2019
119.161	14	Radon	SI, MS	PA	04/14/2019
119.162	14	Radon	SI, MS	PA	04/14/2019
119.163	14	Radon	SI, MS	PA	04/14/2019
119.164	14	Radon	SI, MS	PA	04/14/2019
119.165	14	Radon	SI, MS	PA	04/14/2019
119.166	14	Radon	SI, MS	PA	04/14/2019
119.167	14	Radon	SI, MS	PA	04/14/2019
119.168	14	Radon	SI, MS	PA	04/14/2019
119.169	14	Radon	SI, MS	PA	04/14/2019
119.170	14	Radon	SI, MS	PA	04/14/2019
119.171	14	Radon	SI, MS	PA	04/14/2019
119.172	14	Radon	SI, MS	PA	04/14/2019
119.173	14	Radon	SI, MS	PA	04/14/2019
119.174	14	Radon	SI, MS	PA	04/14/2019
119.175	14	Radon	SI, MS	PA	04/14/2019
119.176	14	Radon	SI, MS	PA	04/14/2019
119.177	14	Radon	SI, MS	PA	04/14/2019
119.178	14	Radon	SI, MS	PA	04/14/2019
119.179	14	Radon	SI, MS	PA	04/14/2019
119.180	14	Radon	SI, MS	PA	04/14/2019
119.181	14	Radon	SI, MS	PA	04/14/2019
119.182	14	Radon	SI, MS	PA	04/14/2019
119.183	14	Radon	SI, MS	PA	04/14/2019
119.184	14	Radon	SI, MS	PA	04/14/2019
119.185	14	Radon	SI, MS	PA	04/14/2019
119.186	14	Radon	SI, MS	PA	04/14/2019
119.187	14	Radon	SI, MS	PA	04/14/2019
119.188	14	Radon	SI, MS	PA	04/14/2019
119.189	14	Radon	SI, MS	PA	04/14/2019
119.190	14	Radon	SI, MS	PA	04/14/2019
119.191	14	Radon	SI, MS	PA	04/14/2019
119.192	14	Radon	SI, MS	PA	04/14/2019
119.193	14	Radon	SI, MS	PA	04/14/2019
119.194	14	Radon	SI, MS	PA	04/14/2019
119.195	14	Radon	SI, MS	PA	04/14/2019
119.196	14	Radon	SI, MS	PA	04/14/2019
119.197	14	Radon	SI, MS	PA	04/14/2019
119.198	14	Radon	SI, MS	PA	04/14/2019
119.199	14	Radon	SI, MS	PA	04/14/2019
119.200	14	Radon	SI, MS	PA	04/14/2019

Aracene Beach

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a voluntary recognition and accreditation body. Customers are urged to verify the laboratory's accreditation status.

Attached to Certificate of Accreditation Q18-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurolina TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 463-7058

DEP Laboratory ID: 02-00416
LPA Lab Code: PA00168
TA Code: TM02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Revisions	Analyte	Accreditation Type	Primary State	Effective Date
100.008		Arsenic	MS-DL	PA	04/15/07
100.009		Barium	MS-DL	PA	04/15/07
100.010		Bromide	MS-DL	PA	04/15/07
100.011		Calcium	MS-DL	PA	04/15/07
100.012		Chloride	MS-DL	PA	04/15/07
100.013		Copper	MS-DL	PA	04/15/07
100.014		Fluoride	MS-DL	PA	04/15/07
100.015		Iron	MS-DL	PA	04/15/07
100.016		Magnesium	MS-DL	PA	04/15/07
100.017		Manganese	MS-DL	PA	04/15/07
100.018		Mercury	MS-DL	PA	04/15/07
100.019		Nitrate	MS-DL	PA	04/15/07
100.020		Phosphate	MS-DL	PA	04/15/07
100.021		Potassium	MS-DL	PA	04/15/07
100.022		Sulfate	MS-DL	PA	04/15/07
100.023		Total Dissolved Solids	MS-DL	PA	04/15/07
100.024		Zinc	MS-DL	PA	04/15/07
100.025		Ammonium	MS-DL	PA	04/15/07
100.026		Antimony	MS-DL	PA	04/15/07
100.027		Barium	MS-DL	PA	04/15/07
100.028		Bromide	MS-DL	PA	04/15/07
100.029		Cadmium	MS-DL	PA	04/15/07
100.030		Calcium	MS-DL	PA	04/15/07
100.031		Chloride	MS-DL	PA	04/15/07
100.032		Copper	MS-DL	PA	04/15/07
100.033		Fluoride	MS-DL	PA	04/15/07
100.034		Iron	MS-DL	PA	04/15/07
100.035		Magnesium	MS-DL	PA	04/15/07
100.036		Manganese	MS-DL	PA	04/15/07
100.037		Mercury	MS-DL	PA	04/15/07
100.038		Nitrate	MS-DL	PA	04/15/07
100.039		Phosphate	MS-DL	PA	04/15/07
100.040		Potassium	MS-DL	PA	04/15/07
100.041		Sulfate	MS-DL	PA	04/15/07
100.042		Total Dissolved Solids	MS-DL	PA	04/15/07
100.043		Zinc	MS-DL	PA	04/15/07
100.044		Ammonium	MS-DL	PA	04/15/07
100.045		Antimony	MS-DL	PA	04/15/07
100.046		Barium	MS-DL	PA	04/15/07
100.047		Bromide	MS-DL	PA	04/15/07
100.048		Cadmium	MS-DL	PA	04/15/07
100.049		Calcium	MS-DL	PA	04/15/07
100.050		Chloride	MS-DL	PA	04/15/07
100.051		Copper	MS-DL	PA	04/15/07
100.052		Fluoride	MS-DL	PA	04/15/07
100.053		Iron	MS-DL	PA	04/15/07
100.054		Magnesium	MS-DL	PA	04/15/07
100.055		Manganese	MS-DL	PA	04/15/07
100.056		Mercury	MS-DL	PA	04/15/07
100.057		Nitrate	MS-DL	PA	04/15/07
100.058		Phosphate	MS-DL	PA	04/15/07
100.059		Potassium	MS-DL	PA	04/15/07
100.060		Sulfate	MS-DL	PA	04/15/07
100.061		Total Dissolved Solids	MS-DL	PA	04/15/07
100.062		Zinc	MS-DL	PA	04/15/07
100.063		Ammonium	MS-DL	PA	04/15/07
100.064		Antimony	MS-DL	PA	04/15/07
100.065		Barium	MS-DL	PA	04/15/07
100.066		Bromide	MS-DL	PA	04/15/07
100.067		Cadmium	MS-DL	PA	04/15/07
100.068		Calcium	MS-DL	PA	04/15/07
100.069		Chloride	MS-DL	PA	04/15/07
100.070		Copper	MS-DL	PA	04/15/07
100.071		Fluoride	MS-DL	PA	04/15/07
100.072		Iron	MS-DL	PA	04/15/07
100.073		Magnesium	MS-DL	PA	04/15/07
100.074		Manganese	MS-DL	PA	04/15/07
100.075		Mercury	MS-DL	PA	04/15/07
100.076		Nitrate	MS-DL	PA	04/15/07
100.077		Phosphate	MS-DL	PA	04/15/07
100.078		Potassium	MS-DL	PA	04/15/07
100.079		Sulfate	MS-DL	PA	04/15/07
100.080		Total Dissolved Solids	MS-DL	PA	04/15/07
100.081		Zinc	MS-DL	PA	04/15/07
100.082		Ammonium	MS-DL	PA	04/15/07
100.083		Antimony	MS-DL	PA	04/15/07
100.084		Barium	MS-DL	PA	04/15/07
100.085		Bromide	MS-DL	PA	04/15/07
100.086		Cadmium	MS-DL	PA	04/15/07
100.087		Calcium	MS-DL	PA	04/15/07
100.088		Chloride	MS-DL	PA	04/15/07
100.089		Copper	MS-DL	PA	04/15/07
100.090		Fluoride	MS-DL	PA	04/15/07
100.091		Iron	MS-DL	PA	04/15/07
100.092		Magnesium	MS-DL	PA	04/15/07
100.093		Manganese	MS-DL	PA	04/15/07
100.094		Mercury	MS-DL	PA	04/15/07
100.095		Nitrate	MS-DL	PA	04/15/07
100.096		Phosphate	MS-DL	PA	04/15/07
100.097		Potassium	MS-DL	PA	04/15/07
100.098		Sulfate	MS-DL	PA	04/15/07
100.099		Total Dissolved Solids	MS-DL	PA	04/15/07
100.100		Zinc	MS-DL	PA	04/15/07

Oranville Beach



Attached to Certificate of Accreditation Q18-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15228
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00184
TNI Code: TNI02151
PADEHS ID: 02416

Matrix: Non-Potable Water

Method	Section	Analyte	Accreditation Type	Primary State	Effective Date
113.017		arsenic	MS/MS	PA	04/12/17
113.018		chloride	MS/MS	PA	04/12/17
113.019		chromium	MS/MS	PA	04/12/17
113.020		fluoride	MS/MS	PA	04/12/17
113.021		iron	MS/MS	PA	04/12/17
113.022		nickel	MS/MS	PA	04/12/17
113.023		nitrate	MS/MS	PA	04/12/17
113.024		nitrite	MS/MS	PA	04/12/17
113.025		phosphate	MS/MS	PA	04/12/17
113.026		silica	MS/MS	PA	04/12/17
113.027		total dissolved solids	MS/MS	PA	04/12/17
113.028		total suspended solids	MS/MS	PA	04/12/17
113.029		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.030		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.031		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.032		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.033		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.034		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.035		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.036		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.037		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.038		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.039		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.040		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.041		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.042		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.043		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.044		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.045		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.046		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.047		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.048		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.049		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.050		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.051		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.052		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.053		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.054		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.055		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.056		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.057		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.058		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.059		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.060		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.061		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.062		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.063		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.064		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.065		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.066		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.067		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.068		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.069		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.070		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.071		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.072		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.073		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.074		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.075		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.076		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.077		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.078		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.079		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.080		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.081		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.082		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.083		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.084		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.085		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.086		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.087		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.088		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.089		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.090		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.091		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.092		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.093		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.094		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.095		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.096		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.097		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.098		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.099		total dissolved and suspended solids	MS/MS	PA	04/12/17
113.100		total dissolved and suspended solids	MS/MS	PA	04/12/17





Attached to Certificate of Accreditation 018-003 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
107 Alpha Drive
Pittsburgh, PA 15236
(412) 461-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TH02151
PAOWIS ID: 02416

Matrix: Non-Potable Water

Method	Remarks	Analysis	Accreditation Type	Primary Scale	Effective Date
104.01		1,2-Dichloroethane, ground water only	ML010	UG	04/30/2017
105.01		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.02		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.03		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.04		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.05		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.06		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.07		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.08		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.09		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.10		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.11		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.12		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.13		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.14		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.15		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.16		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.17		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.18		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.19		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.20		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.21		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.22		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.23		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.24		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.25		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.26		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.27		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.28		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.29		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.30		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.31		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.32		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.33		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.34		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.35		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.36		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.37		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.38		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.39		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.40		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.41		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.42		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.43		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.44		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.45		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.46		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.47		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.48		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.49		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.50		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.51		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.52		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.53		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.54		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.55		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.56		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.57		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.58		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.59		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.60		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.61		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.62		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.63		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.64		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.65		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.66		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.67		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.68		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.69		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.70		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.71		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.72		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.73		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.74		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.75		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.76		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.77		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.78		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.79		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.80		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.81		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.82		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.83		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.84		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.85		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.86		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.87		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.88		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.89		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.90		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.91		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.92		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.93		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.94		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.95		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.96		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.97		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.98		1,4-Dichlorobenzene	ML010	UG	04/30/2017
105.99		1,4-Dichlorobenzene	ML010	UG	04/30/2017
106.00		1,4-Dichlorobenzene	ML010	UG	04/30/2017

For more info



Attached to Certificate of Accreditation D15-022 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15208
(412) 963-7058

DEP Laboratory ID: 03-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PAOWIS ID: 02416

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
156.101		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.102		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.103		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.104		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.105		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.106		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.107		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.108		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.109		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.110		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.111		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.112		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.113		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.114		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.115		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.116		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.117		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.118		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.119		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.120		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.121		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.122		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.123		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.124		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.125		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.126		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.127		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.128		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.129		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.130		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.131		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.132		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.133		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.134		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.135		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.136		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.137		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.138		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.139		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.140		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.141		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.142		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.143		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.144		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.145		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.146		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.147		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.148		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.149		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.150		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.151		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.152		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.153		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.154		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.155		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.156		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.157		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.158		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.159		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.160		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.161		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.162		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.163		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.164		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.165		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.166		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.167		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.168		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.169		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.170		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.171		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.172		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.173		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.174		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.175		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.176		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.177		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.178		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.179		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.180		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.181		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.182		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.183		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.184		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.185		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.186		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.187		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.188		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.189		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.190		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.191		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.192		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.193		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.194		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.195		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.196		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.197		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.198		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.199		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19
156.200		Asbestos (total) (Asbestos)	MS/MS	PA	04/15/19



The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a TNI AP recognized Accredited Body. Customers are urged to verify the laboratory's current accreditation standing.

Attached to Certificate of Accreditation D18-002 expiration date 04/30/2021. This listing of accredited analyses should be used only when associated with a valid certificate of accreditation

Eurofins TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15203
(412) 963-7058

DEP Laboratory ID: 02-00418
EPA Lab Code: PA00164
TNI Code: TN02151
PAIDMS ID: 02418

Matrix: Non-Potable Water

Method	Residue	Analyte	Accreditation Test	Primary State	Effective Date
100.101	Traceable Methods	Traceable Methods	MS/MS	PA	04/10/2018
100.102	Traceable Methods	Traceable Methods	MS/MS	PA	04/10/2018
100.103	Traceable	Traceable	MS/MS	PA	04/10/2018
100.104	Traceable Methods	Traceable Methods	MS/MS	PA	04/10/2018
100.105	Traceable Methods	Traceable Methods	MS/MS	PA	04/10/2018
100.106	Traceable	Traceable	MS/MS	PA	04/10/2018
100.107	Traceable Methods	Traceable Methods	MS/MS	PA	04/10/2018
100.108	Traceable	Traceable	MS/MS	PA	04/10/2018
100.109	Traceable Methods	Traceable Methods	MS/MS	PA	04/10/2018
100.110	Traceable	Traceable	MS/MS	PA	04/10/2018
100.111	Traceable	Traceable	MS/MS	PA	04/10/2018
100.112	Traceable	Traceable	MS/MS	PA	04/10/2018
100.113	Traceable	Traceable	MS/MS	PA	04/10/2018
100.114	Traceable	Traceable	MS/MS	PA	04/10/2018
100.115	Traceable	Traceable	MS/MS	PA	04/10/2018
100.116	Traceable	Traceable	MS/MS	PA	04/10/2018
100.117	Traceable	Traceable	MS/MS	PA	04/10/2018
100.118	Traceable	Traceable	MS/MS	PA	04/10/2018
100.119	Traceable	Traceable	MS/MS	PA	04/10/2018
100.120	Traceable	Traceable	MS/MS	PA	04/10/2018
100.121	Traceable	Traceable	MS/MS	PA	04/10/2018
100.122	Traceable	Traceable	MS/MS	PA	04/10/2018
100.123	Traceable	Traceable	MS/MS	PA	04/10/2018
100.124	Traceable	Traceable	MS/MS	PA	04/10/2018
100.125	Traceable	Traceable	MS/MS	PA	04/10/2018
100.126	Traceable	Traceable	MS/MS	PA	04/10/2018
100.127	Traceable	Traceable	MS/MS	PA	04/10/2018
100.128	Traceable	Traceable	MS/MS	PA	04/10/2018
100.129	Traceable	Traceable	MS/MS	PA	04/10/2018
100.130	Traceable	Traceable	MS/MS	PA	04/10/2018
100.131	Traceable	Traceable	MS/MS	PA	04/10/2018
100.132	Traceable	Traceable	MS/MS	PA	04/10/2018
100.133	Traceable	Traceable	MS/MS	PA	04/10/2018
100.134	Traceable	Traceable	MS/MS	PA	04/10/2018
100.135	Traceable	Traceable	MS/MS	PA	04/10/2018
100.136	Traceable	Traceable	MS/MS	PA	04/10/2018
100.137	Traceable	Traceable	MS/MS	PA	04/10/2018
100.138	Traceable	Traceable	MS/MS	PA	04/10/2018
100.139	Traceable	Traceable	MS/MS	PA	04/10/2018
100.140	Traceable	Traceable	MS/MS	PA	04/10/2018
100.141	Traceable	Traceable	MS/MS	PA	04/10/2018
100.142	Traceable	Traceable	MS/MS	PA	04/10/2018
100.143	Traceable	Traceable	MS/MS	PA	04/10/2018
100.144	Traceable	Traceable	MS/MS	PA	04/10/2018
100.145	Traceable	Traceable	MS/MS	PA	04/10/2018
100.146	Traceable	Traceable	MS/MS	PA	04/10/2018
100.147	Traceable	Traceable	MS/MS	PA	04/10/2018
100.148	Traceable	Traceable	MS/MS	PA	04/10/2018
100.149	Traceable	Traceable	MS/MS	PA	04/10/2018
100.150	Traceable	Traceable	MS/MS	PA	04/10/2018
100.151	Traceable	Traceable	MS/MS	PA	04/10/2018
100.152	Traceable	Traceable	MS/MS	PA	04/10/2018
100.153	Traceable	Traceable	MS/MS	PA	04/10/2018
100.154	Traceable	Traceable	MS/MS	PA	04/10/2018
100.155	Traceable	Traceable	MS/MS	PA	04/10/2018
100.156	Traceable	Traceable	MS/MS	PA	04/10/2018
100.157	Traceable	Traceable	MS/MS	PA	04/10/2018
100.158	Traceable	Traceable	MS/MS	PA	04/10/2018
100.159	Traceable	Traceable	MS/MS	PA	04/10/2018
100.160	Traceable	Traceable	MS/MS	PA	04/10/2018
100.161	Traceable	Traceable	MS/MS	PA	04/10/2018
100.162	Traceable	Traceable	MS/MS	PA	04/10/2018
100.163	Traceable	Traceable	MS/MS	PA	04/10/2018
100.164	Traceable	Traceable	MS/MS	PA	04/10/2018
100.165	Traceable	Traceable	MS/MS	PA	04/10/2018
100.166	Traceable	Traceable	MS/MS	PA	04/10/2018
100.167	Traceable	Traceable	MS/MS	PA	04/10/2018
100.168	Traceable	Traceable	MS/MS	PA	04/10/2018
100.169	Traceable	Traceable	MS/MS	PA	04/10/2018
100.170	Traceable	Traceable	MS/MS	PA	04/10/2018
100.171	Traceable	Traceable	MS/MS	PA	04/10/2018
100.172	Traceable	Traceable	MS/MS	PA	04/10/2018
100.173	Traceable	Traceable	MS/MS	PA	04/10/2018
100.174	Traceable	Traceable	MS/MS	PA	04/10/2018
100.175	Traceable	Traceable	MS/MS	PA	04/10/2018
100.176	Traceable	Traceable	MS/MS	PA	04/10/2018
100.177	Traceable	Traceable	MS/MS	PA	04/10/2018
100.178	Traceable	Traceable	MS/MS	PA	04/10/2018
100.179	Traceable	Traceable	MS/MS	PA	04/10/2018
100.180	Traceable	Traceable	MS/MS	PA	04/10/2018
100.181	Traceable	Traceable	MS/MS	PA	04/10/2018
100.182	Traceable	Traceable	MS/MS	PA	04/10/2018
100.183	Traceable	Traceable	MS/MS	PA	04/10/2018
100.184	Traceable	Traceable	MS/MS	PA	04/10/2018
100.185	Traceable	Traceable	MS/MS	PA	04/10/2018
100.186	Traceable	Traceable	MS/MS	PA	04/10/2018
100.187	Traceable	Traceable	MS/MS	PA	04/10/2018
100.188	Traceable	Traceable	MS/MS	PA	04/10/2018
100.189	Traceable	Traceable	MS/MS	PA	04/10/2018
100.190	Traceable	Traceable	MS/MS	PA	04/10/2018
100.191	Traceable	Traceable	MS/MS	PA	04/10/2018
100.192	Traceable	Traceable	MS/MS	PA	04/10/2018
100.193	Traceable	Traceable	MS/MS	PA	04/10/2018
100.194	Traceable	Traceable	MS/MS	PA	04/10/2018
100.195	Traceable	Traceable	MS/MS	PA	04/10/2018
100.196	Traceable	Traceable	MS/MS	PA	04/10/2018
100.197	Traceable	Traceable	MS/MS	PA	04/10/2018
100.198	Traceable	Traceable	MS/MS	PA	04/10/2018
100.199	Traceable	Traceable	MS/MS	PA	04/10/2018
100.200	Traceable	Traceable	MS/MS	PA	04/10/2018



The Pennsylvania Department of Environmental Protection (PA DEP) Accredited Laboratory Program is a NEQAP program and Accreditation Body. Customers are urged to verify the laboratory's commitment and standing.

Attached to Certificate of Accreditation 018-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Europa TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15235
(412) 963-7050

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00154
TNI Code: TN02151
RADNIS ID: 02416

Major Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
159.03		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.04		2,4-Dinitrotoluene	M-AP	PA	04/17/2011
159.05		2,4-Dinitrochlorobenzene	M-AP	PA	04/17/2011
159.06		2,4-Dinitrofluorobenzene	M-AP	PA	04/17/2011
159.07		2,4-Dinitroanisole	M-AP	PA	04/17/2011
159.08		2,4-Dinitrotoluene	M-AP	PA	04/17/2011
159.09		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.10		2,4-Dinitrophenol isopropyl ester	M-AP	PA	04/17/2011
159.11		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.12		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.13		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.14		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.15		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.16		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.17		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.18		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.19		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.20		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.21		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.22		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.23		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.24		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.25		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.26		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.27		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.28		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.29		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.30		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.31		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.32		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.33		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.34		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.35		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.36		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.37		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.38		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.39		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.40		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.41		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.42		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.43		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.44		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.45		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.46		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.47		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.48		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.49		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.50		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.51		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.52		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.53		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.54		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.55		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.56		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.57		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.58		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.59		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.60		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.61		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.62		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.63		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.64		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.65		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.66		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.67		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.68		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.69		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.70		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.71		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.72		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.73		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.74		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.75		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.76		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.77		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.78		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.79		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.80		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.81		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.82		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.83		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.84		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.85		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.86		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.87		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.88		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.89		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.90		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.91		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.92		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.93		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.94		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.95		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.96		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.97		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.98		2,4-Dinitrophenol	M-AP	PA	04/17/2011
159.99		2,4-Dinitrophenol	M-AP	PA	04/17/2011
160.00		2,4-Dinitrophenol	M-AP	PA	04/17/2011



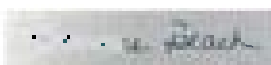
Attached to Certificate of Accreditation 014-003 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
 301 Alpha Drive
 Pittsburgh, PA 15238
 (412) 963-7058

DEP Laboratory ID: 02-00415
 EPA Lab Code: PA00164
 TNI Code: TNI02151
 PADMS ID: 02416

Mutual Non-Potable Water

Method	Regulation	Analyte	Accreditation Type	Primary State	Effective Date
102.01	102.01	arsenic	102.01	PA	04/30/2021
102.02	102.02	barium	102.02	PA	04/30/2021
102.03	102.03	benzene	102.03	PA	10/15/2015
102.04	102.04	bromide	102.04	PA	04/30/2021
102.05	102.05	chromium	102.05	PA	04/30/2021
102.06	102.06	coliform bacteria	102.06	PA	04/30/2021
102.07	102.07	fluoride	102.07	PA	04/30/2021
102.08	102.08	total dissolved solids	102.08	PA	04/30/2021
102.09	102.09	total suspended solids	102.09	PA	04/30/2021
102.10	102.10	total hardness	102.10	PA	04/30/2021
102.11	102.11	total iron	102.11	PA	04/30/2021
102.12	102.12	total phosphorus	102.12	PA	10/15/2015
102.13	102.13	total potassium	102.13	PA	04/30/2021
102.14	102.14	total selenium	102.14	PA	04/30/2021
102.15	102.15	total silver	102.15	PA	04/30/2021
102.16	102.16	total sulfur	102.16	PA	04/30/2021
102.17	102.17	total cyanide	102.17	PA	04/30/2021
102.18	102.18	total zinc	102.18	PA	04/30/2021
102.19	102.19	total chlorine	102.19	PA	04/30/2021
102.20	102.20	total bromine	102.20	PA	04/30/2021
102.21	102.21	total iodine	102.21	PA	04/30/2021
102.22	102.22	total fluoride	102.22	PA	04/30/2021
102.23	102.23	total nitrate	102.23	PA	04/30/2021
102.24	102.24	total nitrite	102.24	PA	04/30/2021
102.25	102.25	total ammonia	102.25	PA	04/30/2021
102.26	102.26	total boron	102.26	PA	04/30/2021
102.27	102.27	total calcium	102.27	PA	04/30/2021
102.28	102.28	total magnesium	102.28	PA	04/30/2021
102.29	102.29	total iron	102.29	PA	04/30/2021
102.30	102.30	total manganese	102.30	PA	04/30/2021
102.31	102.31	total sodium	102.31	PA	04/30/2021
102.32	102.32	total potassium	102.32	PA	04/30/2021
102.33	102.33	total zinc	102.33	PA	04/30/2021
102.34	102.34	total copper	102.34	PA	04/30/2021
102.35	102.35	total lead	102.35	PA	04/30/2021
102.36	102.36	total cadmium	102.36	PA	04/30/2021
102.37	102.37	total mercury	102.37	PA	04/30/2021
102.38	102.38	total selenium	102.38	PA	04/30/2021
102.39	102.39	total silver	102.39	PA	04/30/2021
102.40	102.40	total chromium	102.40	PA	04/30/2021
102.41	102.41	total cobalt	102.41	PA	04/30/2021
102.42	102.42	total nickel	102.42	PA	04/30/2021
102.43	102.43	total molybdenum	102.43	PA	04/30/2021
102.44	102.44	total vanadium	102.44	PA	04/30/2021
102.45	102.45	total tin	102.45	PA	04/30/2021
102.46	102.46	total antimony	102.46	PA	04/30/2021
102.47	102.47	total bismuth	102.47	PA	04/30/2021
102.48	102.48	total boron	102.48	PA	04/30/2021
102.49	102.49	total barium	102.49	PA	04/30/2021
102.50	102.50	total strontium	102.50	PA	04/30/2021
102.51	102.51	total calcium	102.51	PA	04/30/2021
102.52	102.52	total magnesium	102.52	PA	04/30/2021
102.53	102.53	total iron	102.53	PA	04/30/2021
102.54	102.54	total manganese	102.54	PA	04/30/2021
102.55	102.55	total sodium	102.55	PA	04/30/2021
102.56	102.56	total potassium	102.56	PA	04/30/2021
102.57	102.57	total zinc	102.57	PA	04/30/2021
102.58	102.58	total copper	102.58	PA	04/30/2021
102.59	102.59	total lead	102.59	PA	04/30/2021
102.60	102.60	total cadmium	102.60	PA	04/30/2021
102.61	102.61	total mercury	102.61	PA	04/30/2021
102.62	102.62	total selenium	102.62	PA	04/30/2021
102.63	102.63	total silver	102.63	PA	04/30/2021
102.64	102.64	total chromium	102.64	PA	04/30/2021
102.65	102.65	total cobalt	102.65	PA	04/30/2021
102.66	102.66	total nickel	102.66	PA	04/30/2021
102.67	102.67	total molybdenum	102.67	PA	04/30/2021
102.68	102.68	total vanadium	102.68	PA	04/30/2021
102.69	102.69	total tin	102.69	PA	04/30/2021
102.70	102.70	total antimony	102.70	PA	04/30/2021
102.71	102.71	total bismuth	102.71	PA	04/30/2021
102.72	102.72	total boron	102.72	PA	04/30/2021
102.73	102.73	total barium	102.73	PA	04/30/2021
102.74	102.74	total strontium	102.74	PA	04/30/2021
102.75	102.75	total calcium	102.75	PA	04/30/2021
102.76	102.76	total magnesium	102.76	PA	04/30/2021
102.77	102.77	total iron	102.77	PA	04/30/2021
102.78	102.78	total manganese	102.78	PA	04/30/2021
102.79	102.79	total sodium	102.79	PA	04/30/2021
102.80	102.80	total potassium	102.80	PA	04/30/2021
102.81	102.81	total zinc	102.81	PA	04/30/2021
102.82	102.82	total copper	102.82	PA	04/30/2021
102.83	102.83	total lead	102.83	PA	04/30/2021
102.84	102.84	total cadmium	102.84	PA	04/30/2021
102.85	102.85	total mercury	102.85	PA	04/30/2021
102.86	102.86	total selenium	102.86	PA	04/30/2021
102.87	102.87	total silver	102.87	PA	04/30/2021
102.88	102.88	total chromium	102.88	PA	04/30/2021
102.89	102.89	total cobalt	102.89	PA	04/30/2021
102.90	102.90	total nickel	102.90	PA	04/30/2021
102.91	102.91	total molybdenum	102.91	PA	04/30/2021
102.92	102.92	total vanadium	102.92	PA	04/30/2021
102.93	102.93	total tin	102.93	PA	04/30/2021
102.94	102.94	total antimony	102.94	PA	04/30/2021
102.95	102.95	total bismuth	102.95	PA	04/30/2021
102.96	102.96	total boron	102.96	PA	04/30/2021
102.97	102.97	total barium	102.97	PA	04/30/2021
102.98	102.98	total strontium	102.98	PA	04/30/2021
102.99	102.99	total calcium	102.99	PA	04/30/2021
103.00	103.00	total magnesium	103.00	PA	04/30/2021





Attached to Certificate of Accreditation 014-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Furlong TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 953-7058

DEP Laboratory ID: D2-00416
EPA Lab Code: PAD0164
TNI Code: 1NH2151
PADWQS ID: 02446

Matrix: Non-Potable Water

Method	Reagent	Analyte	Accreditation Type	Primary State	Effective Date
10112	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10113	Ascorbic Acid	Ascorbic Acid	MS-CL	PA	04/22/18
10114	Ascorbic Acid, 10% Solution, 0.01N, 50mg/L	Ascorbic Acid	MS-CL	PA	04/22/18
10115	Ascorbic Acid, 10% Solution, 0.01N, 50mg/L	Ascorbic Acid	MS-CL	PA	04/22/18
10116	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10117	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10118	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10119	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10120	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10121	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10122	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10123	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10124	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10125	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10126	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10127	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10128	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10129	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10130	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10131	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10132	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10133	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10134	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10135	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10136	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10137	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10138	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10139	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10140	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10141	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10142	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10143	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10144	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10145	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10146	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10147	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10148	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10149	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10150	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10151	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10152	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10153	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10154	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10155	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10156	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10157	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10158	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10159	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10160	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10161	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10162	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10163	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10164	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10165	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10166	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10167	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10168	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10169	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10170	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10171	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10172	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10173	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10174	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10175	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10176	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10177	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10178	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10179	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10180	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10181	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10182	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10183	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10184	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10185	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10186	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10187	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10188	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10189	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10190	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10191	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10192	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10193	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10194	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10195	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10196	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10197	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10198	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10199	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18
10200	Ascorbic Acid, 10% Solution, 0.01N	Ascorbic Acid	MS-CL	PA	04/22/18





Attached to Certificate of Accreditation 0-10-002 expiration date 04/30/2021 This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Europa TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15218
(412) 941-7008

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TYC Code: TN032751
PAQWYS ID: 02416

Matrix: Non-Potable Water

Method	Matrix	Analyte	Accreditation Type	Primary State	Effective Date
1100.01		Asbestos	SL-01	PA	04/10/19
1100.02		Asbestos	SL-01	PA	04/10/19
1100.03		Asbestos	SL-01	PA	04/10/19
1100.04		Asbestos	SL-01	PA	04/10/19
1100.05		Asbestos	SL-01	PA	04/10/19
1100.06		Asbestos	SL-01	PA	04/10/19
1100.07		Asbestos	SL-01	PA	04/10/19
1100.08		Asbestos	SL-01	PA	04/10/19
1100.09		Asbestos	SL-01	PA	04/10/19
1100.10		Asbestos	SL-01	PA	04/10/19
1100.11		Asbestos	SL-01	PA	04/10/19
1100.12		Asbestos	SL-01	PA	04/10/19
1100.13		Asbestos	SL-01	PA	04/10/19
1100.14		Asbestos	SL-01	PA	04/10/19
1100.15		Asbestos	SL-01	PA	04/10/19
1100.16		Asbestos	SL-01	PA	04/10/19
1100.17		Asbestos	SL-01	PA	04/10/19
1100.18		Asbestos	SL-01	PA	04/10/19
1100.19		Asbestos	SL-01	PA	04/10/19
1100.20		Asbestos	SL-01	PA	04/10/19
1100.21		Asbestos	SL-01	PA	04/10/19
1100.22		Asbestos	SL-01	PA	04/10/19
1100.23		Asbestos	SL-01	PA	04/10/19
1100.24		Asbestos	SL-01	PA	04/10/19
1100.25		Asbestos	SL-01	PA	04/10/19
1100.26		Asbestos	SL-01	PA	04/10/19
1100.27		Asbestos	SL-01	PA	04/10/19
1100.28		Asbestos	SL-01	PA	04/10/19
1100.29		Asbestos	SL-01	PA	04/10/19
1100.30		Asbestos	SL-01	PA	04/10/19
1100.31		Asbestos	SL-01	PA	04/10/19
1100.32		Asbestos	SL-01	PA	04/10/19
1100.33		Asbestos	SL-01	PA	04/10/19
1100.34		Asbestos	SL-01	PA	04/10/19
1100.35		Asbestos	SL-01	PA	04/10/19
1100.36		Asbestos	SL-01	PA	04/10/19
1100.37		Asbestos	SL-01	PA	04/10/19
1100.38		Asbestos	SL-01	PA	04/10/19
1100.39		Asbestos	SL-01	PA	04/10/19
1100.40		Asbestos	SL-01	PA	04/10/19
1100.41		Asbestos	SL-01	PA	04/10/19
1100.42		Asbestos	SL-01	PA	04/10/19
1100.43		Asbestos	SL-01	PA	04/10/19
1100.44		Asbestos	SL-01	PA	04/10/19
1100.45		Asbestos	SL-01	PA	04/10/19
1100.46		Asbestos	SL-01	PA	04/10/19
1100.47		Asbestos	SL-01	PA	04/10/19
1100.48		Asbestos	SL-01	PA	04/10/19
1100.49		Asbestos	SL-01	PA	04/10/19
1100.50		Asbestos	SL-01	PA	04/10/19
1100.51		Asbestos	SL-01	PA	04/10/19
1100.52		Asbestos	SL-01	PA	04/10/19
1100.53		Asbestos	SL-01	PA	04/10/19
1100.54		Asbestos	SL-01	PA	04/10/19
1100.55		Asbestos	SL-01	PA	04/10/19
1100.56		Asbestos	SL-01	PA	04/10/19
1100.57		Asbestos	SL-01	PA	04/10/19
1100.58		Asbestos	SL-01	PA	04/10/19
1100.59		Asbestos	SL-01	PA	04/10/19
1100.60		Asbestos	SL-01	PA	04/10/19
1100.61		Asbestos	SL-01	PA	04/10/19
1100.62		Asbestos	SL-01	PA	04/10/19
1100.63		Asbestos	SL-01	PA	04/10/19
1100.64		Asbestos	SL-01	PA	04/10/19
1100.65		Asbestos	SL-01	PA	04/10/19
1100.66		Asbestos	SL-01	PA	04/10/19
1100.67		Asbestos	SL-01	PA	04/10/19
1100.68		Asbestos	SL-01	PA	04/10/19
1100.69		Asbestos	SL-01	PA	04/10/19
1100.70		Asbestos	SL-01	PA	04/10/19
1100.71		Asbestos	SL-01	PA	04/10/19
1100.72		Asbestos	SL-01	PA	04/10/19
1100.73		Asbestos	SL-01	PA	04/10/19
1100.74		Asbestos	SL-01	PA	04/10/19
1100.75		Asbestos	SL-01	PA	04/10/19
1100.76		Asbestos	SL-01	PA	04/10/19
1100.77		Asbestos	SL-01	PA	04/10/19
1100.78		Asbestos	SL-01	PA	04/10/19
1100.79		Asbestos	SL-01	PA	04/10/19
1100.80		Asbestos	SL-01	PA	04/10/19
1100.81		Asbestos	SL-01	PA	04/10/19
1100.82		Asbestos	SL-01	PA	04/10/19
1100.83		Asbestos	SL-01	PA	04/10/19
1100.84		Asbestos	SL-01	PA	04/10/19
1100.85		Asbestos	SL-01	PA	04/10/19
1100.86		Asbestos	SL-01	PA	04/10/19
1100.87		Asbestos	SL-01	PA	04/10/19
1100.88		Asbestos	SL-01	PA	04/10/19
1100.89		Asbestos	SL-01	PA	04/10/19
1100.90		Asbestos	SL-01	PA	04/10/19
1100.91		Asbestos	SL-01	PA	04/10/19
1100.92		Asbestos	SL-01	PA	04/10/19
1100.93		Asbestos	SL-01	PA	04/10/19
1100.94		Asbestos	SL-01	PA	04/10/19
1100.95		Asbestos	SL-01	PA	04/10/19
1100.96		Asbestos	SL-01	PA	04/10/19
1100.97		Asbestos	SL-01	PA	04/10/19
1100.98		Asbestos	SL-01	PA	04/10/19
1100.99		Asbestos	SL-01	PA	04/10/19
1101.00		Asbestos	SL-01	PA	04/10/19

J. Anne Black



Attached to Certificate of Accreditation 018-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories-Pittsburgh
105 Alpha Drive
Pittsburgh PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PAD0164
TXL Code: TH 02151
PADMS ID: 02416

Matrix: Non-Potable Water

Method	Range	Analyte	Accreditation Type	Primary State	Effective Date
156.101		Asbestos	SI, 401	PA	04/01/2018
156.103		Calcium (total) (mg/L) (as Ca)	SI, 401	PA	04/01/2018
156.104		Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.105		Calcium (total) (mg/L) (as Ca)	SI, 401	PA	04/01/2018
156.106		Calcium (total) (mg/L) (as Ca)	SI, 401	PA	04/01/2018
156.107		Calcium (total) (mg/L) (as Ca)	SI, 401	PA	04/01/2018
156.108	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.109	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.111		Calcium (total) (mg/L) (as Ca)	SI, 401	PA	04/01/2018
156.112		Calcium (total) (mg/L) (as Ca)	SI, 401	PA	04/01/2018
156.114	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.115	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.116	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.117	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.118	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.119	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.120	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.121	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.122	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.123	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.124	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.125	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.126	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.127	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.128	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.129	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.130	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.131	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.132	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.133	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.134	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.135	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.136	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.137	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.138	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.139	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.140	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.141	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.142	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.143	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.144	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.145	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.146	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.147	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.148	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.149	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.150	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.151	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.152	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.153	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.154	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.155	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.156	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.157	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.158	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.159	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.160	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.161	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.162	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.163	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.164	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.165	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.166	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.167	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.168	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.169	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.170	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.171	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.172	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.173	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.174	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.175	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.176	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.177	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.178	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.179	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.180	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.181	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.182	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.183	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.184	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.185	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.186	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.187	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.188	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.189	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.190	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.191	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.192	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.193	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.194	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.195	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.196	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.197	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.198	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.199	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018
156.200	1	Calcium (total) (mg/L) (as Ca)	SI, 401	PA	10/25/2018





Attached to Certificate of Accreditation QIB-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Europa TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00-184
FM Code: TH02151
PADWS ID: 02416

Matrix: Non-Potable Water

Method	Horizon	Analyte	Accreditation Type	Primary State	Effective Date
118.002	A	Arsenic (As) as P, As (U)	MS-CCLP	PA	05/21/2019
118.002	A	Arsenic (As) as P, As (L)	MS-CCLP	PA	05/21/2019
118.002	A	Arsenic (As) as P, As (S)	MS-CCLP	PA	05/21/2019
118.002	A	Arsenic (As) as P, As (C)	MS-CCLP	PA	05/21/2019
118.002	A	Arsenic (As) as P, As (M)	MS-CCLP	PA	05/21/2019
118.002	A	Arsenic (As) as P, As (V)	MS-CCLP	PA	05/21/2019
118.002	A	Arsenic (As) as P, As (D)	MS-CCLP	PA	05/21/2019
118.002	A	Barium (Ba) as Ba (U)	MS-CCLP	PA	05/21/2019
118.002	A	Barium (Ba) as Ba (L)	MS-CCLP	PA	05/21/2019
118.002	A	Barium (Ba) as Ba (S)	MS-CCLP	PA	05/21/2019
118.002	A	Barium (Ba) as Ba (C)	MS-CCLP	PA	05/21/2019
118.002	A	Barium (Ba) as Ba (M)	MS-CCLP	PA	05/21/2019
118.002	A	Barium (Ba) as Ba (V)	MS-CCLP	PA	05/21/2019
118.002	A	Barium (Ba) as Ba (D)	MS-CCLP	PA	05/21/2019
118.002	A	Cadmium (Cd) as Cd (U)	MS-CCLP	PA	05/21/2019
118.002	A	Cadmium (Cd) as Cd (L)	MS-CCLP	PA	05/21/2019
118.002	A	Cadmium (Cd) as Cd (S)	MS-CCLP	PA	05/21/2019
118.002	A	Cadmium (Cd) as Cd (C)	MS-CCLP	PA	05/21/2019
118.002	A	Cadmium (Cd) as Cd (M)	MS-CCLP	PA	05/21/2019
118.002	A	Cadmium (Cd) as Cd (V)	MS-CCLP	PA	05/21/2019
118.002	A	Cadmium (Cd) as Cd (D)	MS-CCLP	PA	05/21/2019
118.002	A	Cobalt (Co) as Co (U)	MS-CCLP	PA	05/21/2019
118.002	A	Cobalt (Co) as Co (L)	MS-CCLP	PA	05/21/2019
118.002	A	Cobalt (Co) as Co (S)	MS-CCLP	PA	05/21/2019
118.002	A	Cobalt (Co) as Co (C)	MS-CCLP	PA	05/21/2019
118.002	A	Cobalt (Co) as Co (M)	MS-CCLP	PA	05/21/2019
118.002	A	Cobalt (Co) as Co (V)	MS-CCLP	PA	05/21/2019
118.002	A	Cobalt (Co) as Co (D)	MS-CCLP	PA	05/21/2019
118.002	A	Copper (Cu) as Cu (U)	MS-CCLP	PA	05/21/2019
118.002	A	Copper (Cu) as Cu (L)	MS-CCLP	PA	05/21/2019
118.002	A	Copper (Cu) as Cu (S)	MS-CCLP	PA	05/21/2019
118.002	A	Copper (Cu) as Cu (C)	MS-CCLP	PA	05/21/2019
118.002	A	Copper (Cu) as Cu (M)	MS-CCLP	PA	05/21/2019
118.002	A	Copper (Cu) as Cu (V)	MS-CCLP	PA	05/21/2019
118.002	A	Copper (Cu) as Cu (D)	MS-CCLP	PA	05/21/2019
118.002	A	Chromium (Cr) as Cr (U)	MS-CCLP	PA	05/21/2019
118.002	A	Chromium (Cr) as Cr (L)	MS-CCLP	PA	05/21/2019
118.002	A	Chromium (Cr) as Cr (S)	MS-CCLP	PA	05/21/2019
118.002	A	Chromium (Cr) as Cr (C)	MS-CCLP	PA	05/21/2019
118.002	A	Chromium (Cr) as Cr (M)	MS-CCLP	PA	05/21/2019
118.002	A	Chromium (Cr) as Cr (V)	MS-CCLP	PA	05/21/2019
118.002	A	Chromium (Cr) as Cr (D)	MS-CCLP	PA	05/21/2019
118.002	A	Iron (Fe) as Fe (U)	MS-CCLP	PA	05/21/2019
118.002	A	Iron (Fe) as Fe (L)	MS-CCLP	PA	05/21/2019
118.002	A	Iron (Fe) as Fe (S)	MS-CCLP	PA	05/21/2019
118.002	A	Iron (Fe) as Fe (C)	MS-CCLP	PA	05/21/2019
118.002	A	Iron (Fe) as Fe (M)	MS-CCLP	PA	05/21/2019
118.002	A	Iron (Fe) as Fe (V)	MS-CCLP	PA	05/21/2019
118.002	A	Iron (Fe) as Fe (D)	MS-CCLP	PA	05/21/2019
118.002	A	Manganese (Mn) as Mn (U)	MS-CCLP	PA	05/21/2019
118.002	A	Manganese (Mn) as Mn (L)	MS-CCLP	PA	05/21/2019
118.002	A	Manganese (Mn) as Mn (S)	MS-CCLP	PA	05/21/2019
118.002	A	Manganese (Mn) as Mn (C)	MS-CCLP	PA	05/21/2019
118.002	A	Manganese (Mn) as Mn (M)	MS-CCLP	PA	05/21/2019
118.002	A	Manganese (Mn) as Mn (V)	MS-CCLP	PA	05/21/2019
118.002	A	Manganese (Mn) as Mn (D)	MS-CCLP	PA	05/21/2019
118.002	A	Nickel (Ni) as Ni (U)	MS-CCLP	PA	05/21/2019
118.002	A	Nickel (Ni) as Ni (L)	MS-CCLP	PA	05/21/2019
118.002	A	Nickel (Ni) as Ni (S)	MS-CCLP	PA	05/21/2019
118.002	A	Nickel (Ni) as Ni (C)	MS-CCLP	PA	05/21/2019
118.002	A	Nickel (Ni) as Ni (M)	MS-CCLP	PA	05/21/2019
118.002	A	Nickel (Ni) as Ni (V)	MS-CCLP	PA	05/21/2019
118.002	A	Nickel (Ni) as Ni (D)	MS-CCLP	PA	05/21/2019
118.002	A	Selenium (Se) as Se (U)	MS-CCLP	PA	05/21/2019
118.002	A	Selenium (Se) as Se (L)	MS-CCLP	PA	05/21/2019
118.002	A	Selenium (Se) as Se (S)	MS-CCLP	PA	05/21/2019
118.002	A	Selenium (Se) as Se (C)	MS-CCLP	PA	05/21/2019
118.002	A	Selenium (Se) as Se (M)	MS-CCLP	PA	05/21/2019
118.002	A	Selenium (Se) as Se (V)	MS-CCLP	PA	05/21/2019
118.002	A	Selenium (Se) as Se (D)	MS-CCLP	PA	05/21/2019
118.002	A	Zinc (Zn) as Zn (U)	MS-CCLP	PA	05/21/2019
118.002	A	Zinc (Zn) as Zn (L)	MS-CCLP	PA	05/21/2019
118.002	A	Zinc (Zn) as Zn (S)	MS-CCLP	PA	05/21/2019
118.002	A	Zinc (Zn) as Zn (C)	MS-CCLP	PA	05/21/2019
118.002	A	Zinc (Zn) as Zn (M)	MS-CCLP	PA	05/21/2019
118.002	A	Zinc (Zn) as Zn (V)	MS-CCLP	PA	05/21/2019
118.002	A	Zinc (Zn) as Zn (D)	MS-CCLP	PA	05/21/2019

Andrew Bosch



Attached to Certificate of Accreditation 018-002 expiration date 06/30/2021 This Listing of accredited analysis should be used only when associated with a valid certificate of accreditation

Eurofins TestAmerica Laboratories-Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15213
(412) 962-7658

DEP Laboratory ID: 02-00416
EPA Lab Code: PA0006a
TKL Code: TH02151
PADWS ID: 02416

Matrix: Non-Potable Water

Method	Reagent	Analyte	Accreditation Type	Primary State	Effective Date
1000001	A	Asbestos (Total) (Asbestos)	NI 33	PA	10/01/2019
1000002	A	Asbestos	NI 33	PA	10/01/2019
1000003	A	Dissolved Oxygen	NI 36	PA	01/01/2020
1000004	A	Free Ammonia Nitrogen (Free Ammonia)	NI 33	PA	10/01/2019
1000005	A	Iron	NI 33	PA	01/01/2020
1000006	A	Total Suspended Solids	NI 36	PA	01/01/2020
1000007	A	Total Suspended Solids (Filterable)	NI 33	PA	10/01/2019
1000008	A	Total Solids (TS)	NI 36	PA	01/01/2020
1000009	A	Ultraviolet Absorbance	NI 33	PA	01/01/2020
1000010	A	Total Chloride (Stannous)	NI 40	PA	01/01/2020
1000011	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000012	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000013	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000014	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000015	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000016	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000017	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000018	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000019	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000020	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000021	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000022	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000023	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000024	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000025	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000026	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000027	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000028	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000029	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000030	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000031	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000032	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000033	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000034	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000035	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000036	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000037	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000038	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000039	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000040	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000041	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000042	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000043	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000044	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000045	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000046	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000047	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000048	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000049	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000050	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000051	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000052	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000053	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000054	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000055	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000056	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000057	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000058	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000059	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000060	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000061	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000062	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000063	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000064	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000065	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000066	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000067	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000068	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000069	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000070	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000071	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000072	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000073	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000074	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000075	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000076	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000077	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000078	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000079	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000080	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000081	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000082	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000083	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000084	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000085	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000086	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000087	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000088	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000089	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000090	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000091	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000092	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000093	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000094	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000095	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000096	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000097	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000098	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000099	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020
1000100	A	Total Chloride (Mercurimetric)	NI 33	PA	01/01/2020





Laboratory Scope of Accreditation



Attached to Certificate of Accreditation 010-002 expiration date 04/30/2021 This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofima TestAmerica Laboratories- Pittsburgh
101 Alpha Drive
Pittsburgh, PA 15228
(412) 960-7658

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
Trl Code: TH02151
PADWIS ID: 02416

Matrix: Non-Potable Water

Method	Radionuclide	Analyte	Accreditation Type	Primary Scale	Effective Date
105.01	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.02	214	Radon	SR-LA	LA	11/18/20
105.03	402	Asbestos	SR-LA	LA	11/18/20
105.04	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.05	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.06	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.07	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.08	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.09	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.10	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.11	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.12	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.13	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.14	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.15	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.16	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.17	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.18	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.19	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.20	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.21	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.22	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.23	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.24	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.25	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.26	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.27	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.28	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.29	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.30	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.31	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.32	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.33	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.34	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.35	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.36	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.37	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.38	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.39	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.40	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.41	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.42	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.43	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.44	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.45	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.46	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.47	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.48	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.49	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.50	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.51	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.52	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.53	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.54	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.55	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.56	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.57	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.58	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.59	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.60	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.61	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.62	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.63	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.64	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.65	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.66	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.67	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.68	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.69	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.70	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.71	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.72	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.73	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.74	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.75	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.76	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.77	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.78	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.79	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.80	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.81	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.82	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.83	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.84	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.85	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.86	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.87	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.88	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.89	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.90	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.91	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.92	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.93	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.94	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.95	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.96	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.97	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.98	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
105.99	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20
106.00	103	Strontium-90 (as Sr)	SR-LA	LA	11/18/20

Signature



Attached to Certificate of Accreditation D18-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7956

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00154
TRI Code: TRI02151
PADEHS ID: 02416

Matrix: Non-Potable Water

Method	Revision	Analyte	Accred Order Type	Priority Status	Effective Date
100.015	01.01	Asbestos (Total Concentration)	SP-01	1A	04/01/2018
100.016	01.01	Asbestos	SP-01	1A	04/01/2018
100.017	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.018	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.019	01.01	Asbestos	SP-01	1A	04/01/2018
100.020	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.021	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.022	01.01	Asbestos	SP-01	1A	04/01/2018
100.023	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.024	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.025	01.01	Asbestos	SP-01	1A	04/01/2018
100.026	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.027	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.028	01.01	Asbestos	SP-01	1A	04/01/2018
100.029	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.030	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.031	01.01	Asbestos	SP-01	1A	04/01/2018
100.032	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.033	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.034	01.01	Asbestos	SP-01	1A	04/01/2018
100.035	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.036	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.037	01.01	Asbestos	SP-01	1A	04/01/2018
100.038	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.039	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.040	01.01	Asbestos	SP-01	1A	04/01/2018
100.041	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.042	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.043	01.01	Asbestos	SP-01	1A	04/01/2018
100.044	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.045	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.046	01.01	Asbestos	SP-01	1A	04/01/2018
100.047	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.048	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.049	01.01	Asbestos	SP-01	1A	04/01/2018
100.050	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.051	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.052	01.01	Asbestos	SP-01	1A	04/01/2018
100.053	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.054	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.055	01.01	Asbestos	SP-01	1A	04/01/2018
100.056	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.057	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.058	01.01	Asbestos	SP-01	1A	04/01/2018
100.059	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.060	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.061	01.01	Asbestos	SP-01	1A	04/01/2018
100.062	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.063	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.064	01.01	Asbestos	SP-01	1A	04/01/2018
100.065	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.066	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.067	01.01	Asbestos	SP-01	1A	04/01/2018
100.068	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.069	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.070	01.01	Asbestos	SP-01	1A	04/01/2018
100.071	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.072	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.073	01.01	Asbestos	SP-01	1A	04/01/2018
100.074	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.075	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.076	01.01	Asbestos	SP-01	1A	04/01/2018
100.077	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.078	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.079	01.01	Asbestos	SP-01	1A	04/01/2018
100.080	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.081	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.082	01.01	Asbestos	SP-01	1A	04/01/2018
100.083	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.084	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.085	01.01	Asbestos	SP-01	1A	04/01/2018
100.086	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.087	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.088	01.01	Asbestos	SP-01	1A	04/01/2018
100.089	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.090	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.091	01.01	Asbestos	SP-01	1A	04/01/2018
100.092	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.093	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.094	01.01	Asbestos	SP-01	1A	04/01/2018
100.095	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.096	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.097	01.01	Asbestos	SP-01	1A	04/01/2018
100.098	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.099	01.01	Asbestos (Asbestos in Filterable Residue)	SP-01	1A	04/01/2018
100.100	01.01	Asbestos	SP-01	1A	04/01/2018

Signature



Attached to Certificate of Accreditation 018-052 expires date 04/30/2021. This listing of accredited analyses should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15208
(412) 963-7058

DEP Laboratory ID: 02-00418
EPA Lab Code: PA00164
TNI Code: TNI02151
PADWIS ID: 02416

Mutual Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
100.01	1.01	Aluminum	SL-001	PA	02/01/2018
100.02	1.01	Ammonia Nitrogen	SL-001	PA	02/01/2018
100.03	1.01	Ammonium Ion	SL-001	PA	02/01/2018
100.04	1.01	Asbestos	SL-001	PA	02/01/2018
100.05	1.01	Asbestos Fibers	SL-001	PA	02/01/2018
100.06	1.01	Barium	SL-001	PA	02/01/2018
100.07	1.01	Beryllium	SL-001	PA	02/01/2018
100.08	1.01	Bismuth	SL-001	PA	02/01/2018
100.09	1.01	Boron	SL-001	PA	02/01/2018
100.10	1.01	Bromine	SL-001	PA	02/01/2018
100.11	1.01	Calcium	SL-001	PA	02/01/2018
100.12	1.01	Calcium Chloride	SL-001	PA	02/01/2018
100.13	1.01	Calcium Hydroxide	SL-001	PA	02/01/2018
100.14	1.01	Calcium Magnesium	SL-001	PA	02/01/2018
100.15	1.01	Calcium Oxide	SL-001	PA	02/01/2018
100.16	1.01	Calcium Sulfate	SL-001	PA	02/01/2018
100.17	1.01	Calcium Sulfate Hemihydrate	SL-001	PA	02/01/2018
100.18	1.01	Calcium Sulfate Dihydrate	SL-001	PA	02/01/2018
100.19	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.20	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.21	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.22	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.23	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.24	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.25	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.26	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.27	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.28	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.29	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.30	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.31	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.32	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.33	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.34	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.35	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.36	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.37	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.38	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.39	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.40	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.41	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.42	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.43	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.44	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.45	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.46	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.47	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.48	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.49	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.50	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.51	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.52	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.53	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.54	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.55	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.56	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.57	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.58	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.59	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.60	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.61	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.62	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.63	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.64	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.65	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.66	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.67	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.68	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.69	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.70	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.71	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.72	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.73	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.74	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.75	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.76	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.77	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.78	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.79	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.80	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.81	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.82	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.83	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.84	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.85	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.86	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.87	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.88	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.89	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.90	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.91	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.92	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.93	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.94	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.95	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.96	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018
100.97	1.01	Calcium Sulfate Pentahydrate	SL-001	PA	02/01/2018
100.98	1.01	Calcium Sulfate Trihydrate	SL-001	PA	02/01/2018
100.99	1.01	Calcium Sulfate Tetrahydrate	SL-001	PA	02/01/2018
100.100	1.01	Calcium Sulfate Hexahydrate	SL-001	PA	02/01/2018

Jessica Beach

Attached to Certificate of Accreditation 018-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurolina TestAmerica Laboratories Pittsburgh
391 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DLP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TN02751
PADWS ID: 02416

Matrix: Non-Potable Water

Method	Region	Analyte	Accreditation Type	Primary State	Effective Date
150.001	1	hexachlorocyclopentadiene, hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.002	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.003	2	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.004	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.005	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.006	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.007	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.008	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.009	2	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.010	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.011	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.012	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.013	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.014	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.015	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.016	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.017	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.018	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.019	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.020	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.021	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.022	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.023	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.024	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.025	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.026	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.027	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.028	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.029	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.030	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.031	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.032	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.033	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.034	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.035	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.036	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.037	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.038	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.039	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.040	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.041	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.042	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.043	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.044	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.045	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.046	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.047	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.048	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.049	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.050	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.051	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.052	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.053	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.054	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.055	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.056	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.057	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.058	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.059	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.060	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.061	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.062	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.063	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.064	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.065	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.066	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.067	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.068	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.069	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.070	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.071	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.072	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.073	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.074	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.075	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.076	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.077	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.078	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.079	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.080	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.081	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.082	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.083	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.084	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.085	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.086	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.087	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.088	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.089	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.090	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.091	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.092	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.093	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.094	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.095	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.096	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.097	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.098	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.099	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017
150.100	1	hexachlorocyclopentadiene	MS-DL	PA	12/21/2017



Attached to Certificate of Accreditation 010-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15213
(412) 969-7058

DEP Laboratory ID: 02-00418
EPA Lab Code: PA00164
TNI Code: TNI02151
PADMIS ID: 02418

Matrix: Non-Potable Water

Method	Regulation	Analyte	Accreditation Type	Primary State	Effective Date
101.01-01.01	1910.101	Asbestos (Total)	MSL	PA	12/21/2017
101.01-01.02	1910.101	Asbestos	MSL	PA	12/21/2017
101.01-01.03	1910.101	Asbestos (Fiber)	MSL	PA	12/21/2017
101.01-01.04	1910.101	Asbestos	MSL	PA	12/21/2017
101.01-01.05	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.06	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.07	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.08	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017

Matrix: Solid and Chemical Materials

Method	Regulation	Analyte	Accreditation Type	Primary State	Effective Date
101.01-01.01	1910.101	Asbestos (Total) (PC)	MSL	PA	12/21/2017
101.01-01.02	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.03	1910.101	Asbestos (Fiber)	MSL	PA	12/21/2017
101.01-01.04	1910.101	Asbestos	MSL	PA	12/21/2017
101.01-01.05	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.06	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.07	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.08	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.09	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.10	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.11	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.12	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.13	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.14	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.15	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.16	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.17	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.18	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.19	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.20	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.21	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.22	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.23	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.24	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.25	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.26	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.27	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.28	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.29	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.30	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.31	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.32	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.33	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.34	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.35	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.36	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.37	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.38	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.39	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.40	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.41	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.42	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.43	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.44	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.45	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.46	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.47	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.48	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.49	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017
101.01-01.50	1910.101	Asbestos (Fiber) (Total) (PC)	MSL	PA	12/21/2017

Eurofins TestAmerica



Attached to Certificate of Accreditation D18-002 expiration date 04-30-2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation

Emerald TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 663-7050

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TSL Code: TMI02151
RADRES ID: 02416

Metals - Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary Suite	Effective Date
15A.001	1.0.0	Aluminum	61.001	PA	04/15/15
15A.001	1.0.0	As	58.001	PA	04/15/15
15A.001	1.0	Barium (Total)	58.001	PA	04/15/2015
15A.001	1.0	Bismuth (Total)	58.001	PA	04/15/2015
15A.001	1.0	Boron (Total)	58.001	PA	04/15/15
15A.001	4.0	Cadmium	58.001	PA	04/15/15
15A.001	4.0	Calcium	61.001	PA	04/15/2015
15A.001	4.0	Chromium	58.001	PA	04/15/15
15A.001	4.0	Copper	58.001	PA	04/15/15
15A.001	4.0	Fluoride	58.001	PA	04/15/15
15A.001	4.0	Iron	61.001	PA	04/15/2015
15A.001	4.0	Lead	58.001	PA	04/15/15
15A.001	4.0	Magnesium	61.001	PA	04/15/2015
15A.001	4.0	Manganese	58.001	PA	04/15/15
15A.001	4.0	Mercury	58.001	PA	04/15/15
15A.001	4.0	Molybdenum	58.001	PA	04/15/15
15A.001	4.0	Nickel	58.001	PA	04/15/15
15A.001	4.0	Phosphorus	58.001	PA	04/15/15
15A.001	4.0	Potassium	61.001	PA	04/15/2015
15A.001	4.0	Selenium	58.001	PA	04/15/15
15A.001	4.0	Silver	58.001	PA	04/15/15
15A.001	4.0	Sulfur	61.001	PA	04/15/2015
15A.001	4.0	Tin	58.001	PA	04/15/15
15A.001	4.0	Vanadium	58.001	PA	04/15/15
15A.001	4.0	Zinc	58.001	PA	04/15/15
15A.001	4.0	Zirconium	58.001	PA	04/15/15
15A.001	4.0	Antimony	58.001	PA	04/15/15
15A.001	4.0	Chlorine	61.001	PA	04/15/2015
15A.001	4.0	Fluoride	61.001	PA	04/15/2015
15A.001	4.0	Iron	61.001	PA	04/15/2015
15A.001	4.0	Lead	61.001	PA	04/15/2015
15A.001	4.0	Mercury	61.001	PA	04/15/2015
15A.001	4.0	Vanadium	61.001	PA	04/15/2015
15A.001	4.0	Zinc	61.001	PA	04/15/2015
15A.001	4.0	Zirconium	61.001	PA	04/15/2015
15A.001	4.0	Aluminum	61.001	PA	04/15/2015
15A.001	4.0	As	61.001	PA	04/15/2015
15A.001	4.0	Barium (Total)	61.001	PA	04/15/2015
15A.001	4.0	Bismuth (Total)	61.001	PA	04/15/2015
15A.001	4.0	Boron (Total)	61.001	PA	04/15/2015
15A.001	4.0	Cadmium	61.001	PA	04/15/2015
15A.001	4.0	Calcium	61.001	PA	04/15/2015
15A.001	4.0	Chromium	61.001	PA	04/15/2015
15A.001	4.0	Copper	61.001	PA	04/15/2015
15A.001	4.0	Fluoride	61.001	PA	04/15/2015
15A.001	4.0	Iron	61.001	PA	04/15/2015
15A.001	4.0	Lead	61.001	PA	04/15/2015
15A.001	4.0	Magnesium	61.001	PA	04/15/2015
15A.001	4.0	Manganese	61.001	PA	04/15/2015
15A.001	4.0	Mercury	61.001	PA	04/15/2015
15A.001	4.0	Molybdenum	61.001	PA	04/15/2015
15A.001	4.0	Nickel	61.001	PA	04/15/2015
15A.001	4.0	Phosphorus	61.001	PA	04/15/2015
15A.001	4.0	Potassium	61.001	PA	04/15/2015
15A.001	4.0	Selenium	61.001	PA	04/15/2015
15A.001	4.0	Silver	61.001	PA	04/15/2015
15A.001	4.0	Sulfur	61.001	PA	04/15/2015
15A.001	4.0	Tin	61.001	PA	04/15/2015
15A.001	4.0	Vanadium	61.001	PA	04/15/2015
15A.001	4.0	Zinc	61.001	PA	04/15/2015
15A.001	4.0	Zirconium	61.001	PA	04/15/2015

Patricia Beach

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accredited User. Only customers are urged to verify the laboratory's current accreditation listing.

Attached to Certificate of Accreditation 018-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
391 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00418
LPA Lab Code: PA00164
TNI Code: TNID2151
PADWIS ID: D2416

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Location State
174.401	2	Cyanide (cyanide ion), cyanide ion	99.401	PA	PA
174.401	2.1	Asbestos	99.401	PA	PA
174.401	3.1	Asbestos	99.401	PA	PA
174.401	4.1	Asbestos	99.401	PA	PA
174.401	4.2	Asbestos	99.401	PA	PA
174.401	4.3	Asbestos	99.401	PA	PA
174.401	4.4	Asbestos	99.401	PA	PA
174.401	4.5	Asbestos	99.401	PA	PA
174.401	4.6	Asbestos	99.401	PA	PA
174.401	4.7	Asbestos	99.401	PA	PA
174.401	4.8	Asbestos	99.401	PA	PA
174.401	4.9	Asbestos	99.401	PA	PA
174.401	4.10	Asbestos	99.401	PA	PA
174.401	4.11	Asbestos	99.401	PA	PA
174.401	4.12	Asbestos	99.401	PA	PA
174.401	4.13	Asbestos	99.401	PA	PA
174.401	4.14	Asbestos	99.401	PA	PA
174.401	4.15	Asbestos	99.401	PA	PA
174.401	4.16	Asbestos	99.401	PA	PA
174.401	4.17	Asbestos	99.401	PA	PA
174.401	4.18	Asbestos	99.401	PA	PA
174.401	4.19	Asbestos	99.401	PA	PA
174.401	4.20	Asbestos	99.401	PA	PA
174.401	4.21	Asbestos	99.401	PA	PA
174.401	4.22	Asbestos	99.401	PA	PA
174.401	4.23	Asbestos	99.401	PA	PA
174.401	4.24	Asbestos	99.401	PA	PA
174.401	4.25	Asbestos	99.401	PA	PA
174.401	4.26	Asbestos	99.401	PA	PA
174.401	4.27	Asbestos	99.401	PA	PA
174.401	4.28	Asbestos	99.401	PA	PA
174.401	4.29	Asbestos	99.401	PA	PA
174.401	4.30	Asbestos	99.401	PA	PA
174.401	4.31	Asbestos	99.401	PA	PA
174.401	4.32	Asbestos	99.401	PA	PA
174.401	4.33	Asbestos	99.401	PA	PA
174.401	4.34	Asbestos	99.401	PA	PA
174.401	4.35	Asbestos	99.401	PA	PA
174.401	4.36	Asbestos	99.401	PA	PA
174.401	4.37	Asbestos	99.401	PA	PA
174.401	4.38	Asbestos	99.401	PA	PA
174.401	4.39	Asbestos	99.401	PA	PA
174.401	4.40	Asbestos	99.401	PA	PA
174.401	4.41	Asbestos	99.401	PA	PA
174.401	4.42	Asbestos	99.401	PA	PA
174.401	4.43	Asbestos	99.401	PA	PA
174.401	4.44	Asbestos	99.401	PA	PA
174.401	4.45	Asbestos	99.401	PA	PA
174.401	4.46	Asbestos	99.401	PA	PA
174.401	4.47	Asbestos	99.401	PA	PA
174.401	4.48	Asbestos	99.401	PA	PA
174.401	4.49	Asbestos	99.401	PA	PA
174.401	4.50	Asbestos	99.401	PA	PA
174.401	4.51	Asbestos	99.401	PA	PA
174.401	4.52	Asbestos	99.401	PA	PA
174.401	4.53	Asbestos	99.401	PA	PA
174.401	4.54	Asbestos	99.401	PA	PA
174.401	4.55	Asbestos	99.401	PA	PA
174.401	4.56	Asbestos	99.401	PA	PA
174.401	4.57	Asbestos	99.401	PA	PA
174.401	4.58	Asbestos	99.401	PA	PA
174.401	4.59	Asbestos	99.401	PA	PA
174.401	4.60	Asbestos	99.401	PA	PA
174.401	4.61	Asbestos	99.401	PA	PA
174.401	4.62	Asbestos	99.401	PA	PA
174.401	4.63	Asbestos	99.401	PA	PA
174.401	4.64	Asbestos	99.401	PA	PA
174.401	4.65	Asbestos	99.401	PA	PA
174.401	4.66	Asbestos	99.401	PA	PA
174.401	4.67	Asbestos	99.401	PA	PA
174.401	4.68	Asbestos	99.401	PA	PA
174.401	4.69	Asbestos	99.401	PA	PA
174.401	4.70	Asbestos	99.401	PA	PA



The Pennsylvania Department of Environmental Protection hereby certifies Accreditation (Registration) (PA) (All Analyte) (by Accreditation) (only) (for use only) (as listed) (with) (the Laboratory's) (current) (scope of) (analytical) (testing)

Attached to Certificate of Accreditation #14-002 expiration date 04/30/2021 This listing of accredited analytes should be used only when associated with a valid certificate of accreditation

Evolution TestAmerica Laboratories - Pittsburgh
101 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7058

DEP Laboratory ID: DZ-02416
EPA Lab Code: PA00164
THI Code: TH02151
PAOWIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
1343.41	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.42	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.500	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.501	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.502	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.503	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.504	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.505	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.506	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.507	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.508	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.509	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.510	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.511	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.512	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.513	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.514	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.515	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.516	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.517	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.518	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.519	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.520	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.521	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.522	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.523	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.524	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.525	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.526	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.527	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.528	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.529	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.530	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.531	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.532	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.533	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.534	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.535	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.536	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.537	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.538	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.539	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.540	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.541	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.542	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.543	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.544	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.545	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.546	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.547	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.548	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.549	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.550	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.551	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.552	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.553	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.554	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.555	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.556	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.557	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.558	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.559	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.560	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.561	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.562	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.563	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.564	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.565	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.566	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.567	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.568	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.569	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16
1343.570	A	Asbestos (Total Suspended Particulate) TSP	M-44	PA	04/01/16



The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NALAP (National Accreditation Body) Certified and Accredited Laboratory. For more information, visit www.dep.state.pa.us.



Attached to Certificate of Accreditation 018-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories-Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(412) 963-7090

DEP Laboratory ID: 03-00416
EPA Lab Code: PA00164
TNI Code: TNH02151
PAOWIS ID: 97416

Matrix: Soils and Chemical Materials

Method	Radionuclide	Analyte	Accreditation Type	Primary State	Effective Date
1176.01	A	Asbestos (total)	MSL	PA	06/25/2011
1176.02	A	Asbestos (total)	MSL	PA	12/28/2011
1176.03	A	Asbestos (total) (soil) (bulk)	MSL	PA	06/25/2011
1176.04	A	Asbestos (total) (soil) (bulk)	MSL	PA	12/28/2011
1176.05	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.06	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.07	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.08	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.09	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.10	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.11	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.12	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.13	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.14	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.15	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.16	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.17	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.18	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.19	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.20	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.21	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.22	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.23	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.24	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.25	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.26	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.27	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.28	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.29	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.30	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.31	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.32	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.33	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.34	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.35	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.36	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.37	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.38	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.39	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.40	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.41	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.42	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.43	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.44	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.45	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.46	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.47	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.48	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.49	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.50	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.51	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.52	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.53	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.54	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.55	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.56	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.57	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.58	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.59	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.60	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.61	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.62	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.63	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.64	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.65	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.66	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.67	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.68	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.69	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.70	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.71	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.72	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.73	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.74	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.75	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.76	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.77	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.78	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.79	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.80	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.81	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.82	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.83	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.84	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.85	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.86	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.87	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.88	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.89	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.90	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.91	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.92	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.93	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.94	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.95	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.96	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.97	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.98	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1176.99	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011
1177.00	A (P)	Asbestos (total) (soil)	MSL	PA	12/28/2011

Thomas Beach

The Pennsylvania Department of Environmental Protection, Laboratory Accreditation Program, is a NEQAP membership and Accreditation Body. Its programs are subject to the oversight and periodic performance monitoring.

Attached to Certificate of Accreditation 018-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Europa TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15235
(412) 961-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TH02151
PADEIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Radionuclide	Analyte	Accreditation Type	Primary Scope	Effective Date
113.4.11	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.12	4	Mercury (Dissolved)	SI-02	1A	01/15/17
113.4.13	4	Mercury (Methyl)	SI-02	1A	01/15/2018
113.4.14	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.15	2	Chromium (VI)	SI-02	1A	01/15/2018
113.4.16	4, 5, 6	Lead (Total)	SI-02	1A	01/15/17
113.4.16a	4, 5, 6	Lead (Dissolved)	SI-02	1A	01/15/17
113.4.16b	2, 3, 4	Lead (Total)	SI-02	1A	01/15/2018
113.4.16c	4, 5, 6	Lead (Total) (Dissolved) (Total) (SI)	SI-02	1A	01/15/2018
113.4.16d	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16e	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16f	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16g	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16h	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16i	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16j	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16k	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16l	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16m	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16n	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16o	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16p	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16q	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16r	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16s	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16t	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16u	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16v	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16w	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16x	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16y	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.16z	4, 5, 6	Lead (Total) (Dissolved)	SI-02	1A	01/15/17
113.4.17	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.18	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.19	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.20	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.21	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.22	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.23	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.24	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.25	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.26	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.27	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.28	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.29	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.30	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.31	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.32	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.33	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.34	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.35	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.36	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.37	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.38	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.39	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.40	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.41	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.42	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.43	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.44	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.45	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.46	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.47	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.48	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.49	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.50	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.51	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.52	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.53	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.54	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.55	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.56	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.57	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.58	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.59	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.60	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.61	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.62	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.63	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.64	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.65	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.66	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.67	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.68	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.69	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.70	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.71	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.72	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.73	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.74	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.75	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.76	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.77	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.78	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.79	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.80	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.81	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.82	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.83	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.84	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.85	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.86	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.87	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.88	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.89	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.90	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.91	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.92	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.93	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.94	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.95	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.96	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.97	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.98	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.99	4	Mercury (Total)	SI-02	1A	01/15/17
113.4.100	4	Mercury (Total)	SI-02	1A	01/15/17



Attached to Certificate of Accreditation 018-002 expiration date 04/30/2021. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Eurofins TestAmerica Laboratories Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15208
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNID2151
PACMIS ID: 02416

Matrix: Solid and Chemical Materials

Method	Regulation	Analyte	Accreditation Type	Primary State	Effective Date
1349.1	1.1	Asphalt	13.13	PA	04/10/17
1349.2	1.1	Asphalt	13.13	PA	04/10/17
1349.3	1.1	Asphalt	13.13	PA	04/10/17
1349.4	1.1	Asphalt	13.13	PA	04/10/17
1349.5	1.1	Asphalt	13.13	PA	04/10/17
1349.6	1.1	Asphalt	13.13	PA	04/10/17
1349.7	1.1	Asphalt	13.13	PA	04/10/17
1349.8	1.1	Asphalt	13.13	PA	04/10/17
1349.9	1.1	Asphalt	13.13	PA	04/10/17
1349.10	1.1	Asphalt	13.13	PA	04/10/17
1349.11	1.1	Asphalt	13.13	PA	04/10/17
1349.12	1.1	Asphalt	13.13	PA	04/10/17
1349.13	1.1	Asphalt	13.13	PA	04/10/17
1349.14	1.1	Asphalt	13.13	PA	04/10/17
1349.15	1.1	Asphalt	13.13	PA	04/10/17
1349.16	1.1	Asphalt	13.13	PA	04/10/17
1349.17	1.1	Asphalt	13.13	PA	04/10/17
1349.18	1.1	Asphalt	13.13	PA	04/10/17
1349.19	1.1	Asphalt	13.13	PA	04/10/17
1349.20	1.1	Asphalt	13.13	PA	04/10/17
1349.21	1.1	Asphalt	13.13	PA	04/10/17
1349.22	1.1	Asphalt	13.13	PA	04/10/17
1349.23	1.1	Asphalt	13.13	PA	04/10/17
1349.24	1.1	Asphalt	13.13	PA	04/10/17
1349.25	1.1	Asphalt	13.13	PA	04/10/17
1349.26	1.1	Asphalt	13.13	PA	04/10/17
1349.27	1.1	Asphalt	13.13	PA	04/10/17
1349.28	1.1	Asphalt	13.13	PA	04/10/17
1349.29	1.1	Asphalt	13.13	PA	04/10/17
1349.30	1.1	Asphalt	13.13	PA	04/10/17
1349.31	1.1	Asphalt	13.13	PA	04/10/17
1349.32	1.1	Asphalt	13.13	PA	04/10/17
1349.33	1.1	Asphalt	13.13	PA	04/10/17
1349.34	1.1	Asphalt	13.13	PA	04/10/17
1349.35	1.1	Asphalt	13.13	PA	04/10/17
1349.36	1.1	Asphalt	13.13	PA	04/10/17
1349.37	1.1	Asphalt	13.13	PA	04/10/17
1349.38	1.1	Asphalt	13.13	PA	04/10/17
1349.39	1.1	Asphalt	13.13	PA	04/10/17
1349.40	1.1	Asphalt	13.13	PA	04/10/17
1349.41	1.1	Asphalt	13.13	PA	04/10/17
1349.42	1.1	Asphalt	13.13	PA	04/10/17
1349.43	1.1	Asphalt	13.13	PA	04/10/17
1349.44	1.1	Asphalt	13.13	PA	04/10/17
1349.45	1.1	Asphalt	13.13	PA	04/10/17
1349.46	1.1	Asphalt	13.13	PA	04/10/17
1349.47	1.1	Asphalt	13.13	PA	04/10/17
1349.48	1.1	Asphalt	13.13	PA	04/10/17
1349.49	1.1	Asphalt	13.13	PA	04/10/17
1349.50	1.1	Asphalt	13.13	PA	04/10/17
1349.51	1.1	Asphalt	13.13	PA	04/10/17
1349.52	1.1	Asphalt	13.13	PA	04/10/17
1349.53	1.1	Asphalt	13.13	PA	04/10/17
1349.54	1.1	Asphalt	13.13	PA	04/10/17
1349.55	1.1	Asphalt	13.13	PA	04/10/17
1349.56	1.1	Asphalt	13.13	PA	04/10/17
1349.57	1.1	Asphalt	13.13	PA	04/10/17
1349.58	1.1	Asphalt	13.13	PA	04/10/17
1349.59	1.1	Asphalt	13.13	PA	04/10/17
1349.60	1.1	Asphalt	13.13	PA	04/10/17
1349.61	1.1	Asphalt	13.13	PA	04/10/17
1349.62	1.1	Asphalt	13.13	PA	04/10/17
1349.63	1.1	Asphalt	13.13	PA	04/10/17
1349.64	1.1	Asphalt	13.13	PA	04/10/17
1349.65	1.1	Asphalt	13.13	PA	04/10/17
1349.66	1.1	Asphalt	13.13	PA	04/10/17
1349.67	1.1	Asphalt	13.13	PA	04/10/17
1349.68	1.1	Asphalt	13.13	PA	04/10/17
1349.69	1.1	Asphalt	13.13	PA	04/10/17
1349.70	1.1	Asphalt	13.13	PA	04/10/17
1349.71	1.1	Asphalt	13.13	PA	04/10/17
1349.72	1.1	Asphalt	13.13	PA	04/10/17
1349.73	1.1	Asphalt	13.13	PA	04/10/17
1349.74	1.1	Asphalt	13.13	PA	04/10/17
1349.75	1.1	Asphalt	13.13	PA	04/10/17
1349.76	1.1	Asphalt	13.13	PA	04/10/17
1349.77	1.1	Asphalt	13.13	PA	04/10/17
1349.78	1.1	Asphalt	13.13	PA	04/10/17
1349.79	1.1	Asphalt	13.13	PA	04/10/17
1349.80	1.1	Asphalt	13.13	PA	04/10/17
1349.81	1.1	Asphalt	13.13	PA	04/10/17
1349.82	1.1	Asphalt	13.13	PA	04/10/17
1349.83	1.1	Asphalt	13.13	PA	04/10/17
1349.84	1.1	Asphalt	13.13	PA	04/10/17
1349.85	1.1	Asphalt	13.13	PA	04/10/17
1349.86	1.1	Asphalt	13.13	PA	04/10/17
1349.87	1.1	Asphalt	13.13	PA	04/10/17
1349.88	1.1	Asphalt	13.13	PA	04/10/17
1349.89	1.1	Asphalt	13.13	PA	04/10/17
1349.90	1.1	Asphalt	13.13	PA	04/10/17
1349.91	1.1	Asphalt	13.13	PA	04/10/17
1349.92	1.1	Asphalt	13.13	PA	04/10/17
1349.93	1.1	Asphalt	13.13	PA	04/10/17
1349.94	1.1	Asphalt	13.13	PA	04/10/17
1349.95	1.1	Asphalt	13.13	PA	04/10/17
1349.96	1.1	Asphalt	13.13	PA	04/10/17
1349.97	1.1	Asphalt	13.13	PA	04/10/17
1349.98	1.1	Asphalt	13.13	PA	04/10/17
1349.99	1.1	Asphalt	13.13	PA	04/10/17
1349.100	1.1	Asphalt	13.13	PA	04/10/17





Attached to Certificate of Accreditation 014-003 expiration date 04/30/2021, This listing of accredited analytes should be used only when associated with a valid certificate of accreditation

Enviroline TestAmerica Laboratories- Pittsburgh
507 Alpha Drive
Pittsburgh PA 15238
(412) 963-7058

DEP Laboratory ID: 02-00416
EPA Lab Code: PA00164
TNI Code: TNI02151
PADEHS ID: 02416

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary Stage	Effective Date
1124.1	1.1	Chloride (as chloride)	10.04	1A	04/2017
1124.1	1.1	Lead	10.04	1A	04/2017
1124.10	1.1	Asbestos	10.04	1A	04/2017
1124.11	1.1	Asbestos	10.04	1A	04/2017
1124.15	1.1	Mercury	10.04	1A	04/2017
1124.16	1.1	Hexachlorobenzene	10.04	1A	04/2017
1124.17	1.1	Polychlorinated biphenyls	10.04	1A	04/2017
1124.18	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.19	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.20	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.21	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.22	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.23	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.24	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.25	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.26	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.27	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.28	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.29	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.30	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.31	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.32	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.33	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.34	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.35	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.36	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.37	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.38	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.39	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.40	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.41	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.42	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.43	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.44	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.45	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.46	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.47	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.48	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.49	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.50	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.51	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.52	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.53	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.54	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.55	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.56	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.57	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.58	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.59	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.60	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.61	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.62	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.63	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.64	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.65	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.66	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.67	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.68	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.69	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.70	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.71	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.72	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.73	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.74	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.75	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.76	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.77	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.78	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.79	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.80	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.81	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.82	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.83	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.84	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.85	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.86	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.87	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.88	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.89	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.90	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.91	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.92	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.93	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.94	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.95	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.96	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.97	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.98	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.99	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017
1124.100	1.1	Polycyclic aromatic hydrocarbons	10.04	1A	04/2017

Thomas Blach

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APPENDIX A

**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 μ 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 μ 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 μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:35:42	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 μ 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 μ 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: 2020-02-18 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 μ 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 μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:28:32	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 μ 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 μ 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 μ 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 μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:13:45	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 μ 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 μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:12:34	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 μ 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 μ 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 μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:49:20	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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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

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 μ 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 μ 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

APPENDIX A

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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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: 2020-03-25 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ 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 μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:45:02	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

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 μ 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 μ 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

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 properly 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

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-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

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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 A

DATA VALIDATION SUMMARIES

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

Laboratory Precision:	Laboratory goals for precision were met.
Field Precision:	Field goals for precision were met.
Accuracy:	Laboratory goals for accuracy were met, with the exception of sulfate and radium-226, as described in the qualifications sections below.
Detection Limits:	Project goals for detection limits were met. Certain samples were diluted due to elevated concentrations of target analytes. Dilutions do not require qualifications based on USEPA guidelines. Detection and reporting limits of non-detect compounds are elevated proportional to the dilution when undiluted sample results are not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.
Completeness:	There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: All holding time requirements were met in accordance with specific analytical methods.

QUALIFICATIONS

In general, chemical results for the samples collected at the Site were qualified on the basis of 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

SDG	Sample Name	Constituent	New Result	New MDL	New RL	Qualifier	Reason
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 B

PIEZOMETER INSTALLATION REPORT

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	



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 Issued 6/29/20.

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 to list Network
 Well ID

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-28i	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	
PZ30i	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-33i	33.08201411 °	-83.79943146 °	1121245.41	2409063.30	466.55	1121245.25	2409064.05	469.38	466.4	
PZ34S	33.08224927 °	-83.79869810 °	1121330.71	2409288.05	441.08	1121331.59	2409288.37	443.67	440.8	
PZ-35i	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	
PZ-37i	33.08183679 °	-83.80153755 °	1121177.58	2408419.44	479.68	1121178.48	2408419.19	482.18	479.5	
PZ-38i	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	



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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-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-5S	33.07174413 °	-83.82313290 °	1117483.92	2401817.76	520.73	1117484.15	2401816.71	523.26	520.6	
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	
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	



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3rd data set: LF Wells

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GWC-1	33.07878129	-83.79131155	No nail	No nail	371.77*	1120077.85	2411555.32	374.95	371.6	*Pad elev (no nail)
GWC-2	33.07806384	-83.79151634	No nail	No nail	377.02*	1119816.59	2411493.53	380.22	376.9	*Pad elev (no nail)
GWC-3	33.07750983	-83.79246763	No nail	No nail	407.36*	1119613.99	2411202.86	410.44	407.1	*Pad elev (no nail)
GWC-4	33.07652737	-83.79299751	No nail	No nail	408.50*	1119255.96	2411041.82	411.75	408.4	*Pad elev (no nail)
GWC-5	33.07554291	-83.79305371	1118898.01	2411024.23	393.37	1118897.72	2411025.88	396.69	393.3	
GWC-6	33.07465931	-83.79355797	1118575.49	2410871.44	412.48	1118575.69	2410872.56	415.80	412.4	
GWC-7	33.07374897	-83.79430173	1118244.68	2410644.68	414.51	1118243.67	2410645.91	418.27	414.4	
GWC-8A	33.07285463	-83.79518936	1117918.66	2410375.13	398.65	1117917.32	2410375.16	401.62	398.6	
GWC-9	33.07296130	-83.79586603	1117955.66	2410165.91	383.21	1117955.40	2410167.75	386.18	382.8	
GWC-10	33.07392850	-83.79634992	1118307.27	2410019.38	389.49	1118306.77	2410018.28	392.87	388.9	
GWC-11	33.07487138	-83.79712763	1118649.69	2409779.78	399.21	1118648.98	2409778.84	402.33	398.8	
GWC-12	33.07577749	-83.79785602	1118978.18	2409555.72	409.66	1118977.87	2409554.57	412.89	409.2	
GWC-13	33.07677077	-83.79838604	1119339.29	2409391.96	416.71	1119338.68	2409390.95	419.77	416.5	
GWC-14	33.07764300	-83.79929390	1119655.22	2409112.94	400.41	1119655.05	2409111.75	403.60	400.2	
GWA-15	33.07861529	-83.79873262	1120008.91	2409283.54	412.00	1120009.40	2409282.43	415.01	411.7	
GWA-16	33.07927008	-83.79775923	1120247.82	2409580.61	441.01	1120248.68	2409579.75	444.24	440.9	
GWA-17	33.07916177	-83.79656159	1120209.73	2409945.86	442.92	1120210.57	2409946.73	445.84	442.8	
GWC-18	33.07857646	-83.79553524	1119997.61	2410261.31	436.40	1119998.73	2410261.85	439.66	436.3	
GWC-19	33.07760179	-83.79406581	1119646.10	2410712.10	426.34	1119645.70	2410713.20	430.20	426.3	
GWC-20	33.07843484	-83.79248811	1119951.51	2411194.45	423.03	1119950.51	2411195.38	426.30	423.0	
GWA-21	33.08044495	-83.79813647	No nail	No nail	419.81*	1120675.73	2409462.70	422.58	419.7	*Pad elev (no nail)
GWA-22	33.08123199	-83.79809884	1120961.49	2409475.41	442.01	1120962.12	2409473.22	444.50	442.0	
GWC-29	33.07825289	-83.80057699	1119878.12	2408718.22	396.98	1119875.58	2408717.95	399.64	396.9	
GWC-30	33.07685172	-83.79973920	1119366.69	2408975.21	392.19	1119366.69	2408976.35	394.49	392.0	
GWC-31	33.07576062	-83.79946406	1118969.72	2409060.85	390.13	1118970.00	2409062.02	392.78	390.0	
GWC-32	33.07515444	-83.79939211	1118749.23	2409083.89	407.25	1118749.53	2409084.83	410.03	406.9	
GWC-33A	33.07435239	-83.79849852	1118457.51	2409359.70	391.32	1118458.68	2409359.58	393.96	390.9	
GWC-34	33.07377095	-83.79745357	1118247.67	2409679.54	386.48	1118248.26	2409680.41	389.29	386.2	
GWC-35	33.07272028	-83.79672091	1117860.31	2409905.20	385.35	1117860.46	2409906.21	387.90	385.1	
GWC-36	33.07188280	-83.79745810	1117561.62	2409680.48	422.52	1117561.29	2409681.44	425.12	422.0	
GWC-37	33.07099933	-83.79760828	1117239.61	2409635.60	427.38	1117239.70	2409636.56	429.80	427.2	
GWC-38	33.06975458	-83.79795117	1116787.37	2409532.78	416.23	1116786.45	2409533.11	418.68	416.0	
GWA-39	33.07026066	-83.80076113	1116968.30	2408672.39	454.59	1116967.57	2408671.68	457.62	454.2	



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3rd data set: LF Wells

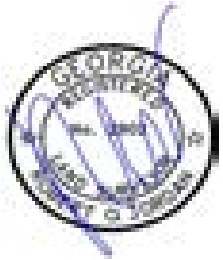
NETWORK WELL ID	PVC CASING LATITUDE	PVC CASING LONGITUDE	CONTROL NAIL NORTHING	CONTROL NAIL EASTING	CONTROL NAIL ELEVATION	PVC CASING NORTHING	PVC CASING EASTING	TOP OF PVC CASING ELEV.	GROUND ELEVATION	COMMENTS
GWA-40	33.07135310 °	-83.80056612 °	1117365.04	2408731.04	461.25	1117365.24	2408730.04	463.84	461.2	
GWA-41	33.07336732 °	-83.80159552 °	1118096.35	2408413.11	431.70	1118096.97	2408412.15	434.12	431.4	
GWA-42	33.07447862 °	-83.80217405 °	1118501.16	2408234.42	402.57	1118500.68	2408233.53	405.19	402.2	
GWA-43	33.07546760 °	-83.80135092 °	1118860.39	2408484.93	398.42	1118861.38	2408484.42	400.94	398.1	
GWA-44A	33.07666407 °	-83.80106739 °	1119296.97	2408571.05	396.83	1119296.99	2408569.76	399.62	396.5	
GWA-45	33.08044161 °	-83.80327246 °	1120668.04	2407891.77	448.33	1120669.03	2407889.56	451.08	448.3	
GWA-46	33.08075220 °	-83.80214114 °	1120781.16	2408236.36	458.37	1120783.23	2408235.69	461.13	458.3	
GWA-47	33.08096707 °	-83.80099979 °	No nail	No nail	463.03*	1120862.63	2408585.01	465.77	462.9	*Pad elev (no nail)
GWA-48	33.08121322 °	-83.79984149 °	1120951.13	2408939.16	459.00	1120953.42	2408939.48	461.73	458.8	
GWA-49	33.08142057 °	-83.79870153 °	1121028.02	2409287.04	430.16	1121030.08	2409288.38	432.88	429.9	
GWC-50	33.07836585 °	-83.79979905 °	1119919.79	2408955.82	404.44	1119917.51	2408956.10	407.16	404.3	
GWC-51	33.07814547 °	-83.80149483 °	1119837.81	2408436.16	407.37	1119835.51	2408436.95	410.15	407.3	
GWC-52	33.07852375 °	-83.80225381 °	1119973.72	2408206.05	414.43	1119972.34	2408203.99	417.13	414.4	
GWC-53	33.07948082 °	-83.80310179 °	1120319.90	2407945.42	433.10	1120319.65	2407943.05	435.83	432.9	
GWA-54	33.07241582 °	-83.80102370 °	1117750.36	2408588.80	448.78	1117751.40	2408588.52	451.49	448.6	
LPZ-1	33.07044703 °	-83.83392205 °	1117001.26	2398512.52	550.47	1117001.58	2398513.19	553.29	550.0	Not included in list
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 7/29/20.

Reissued 8/13/20 to list Network Well ID and rename 2 wells

OBSERVED WELL 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.

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 roto-sonic 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

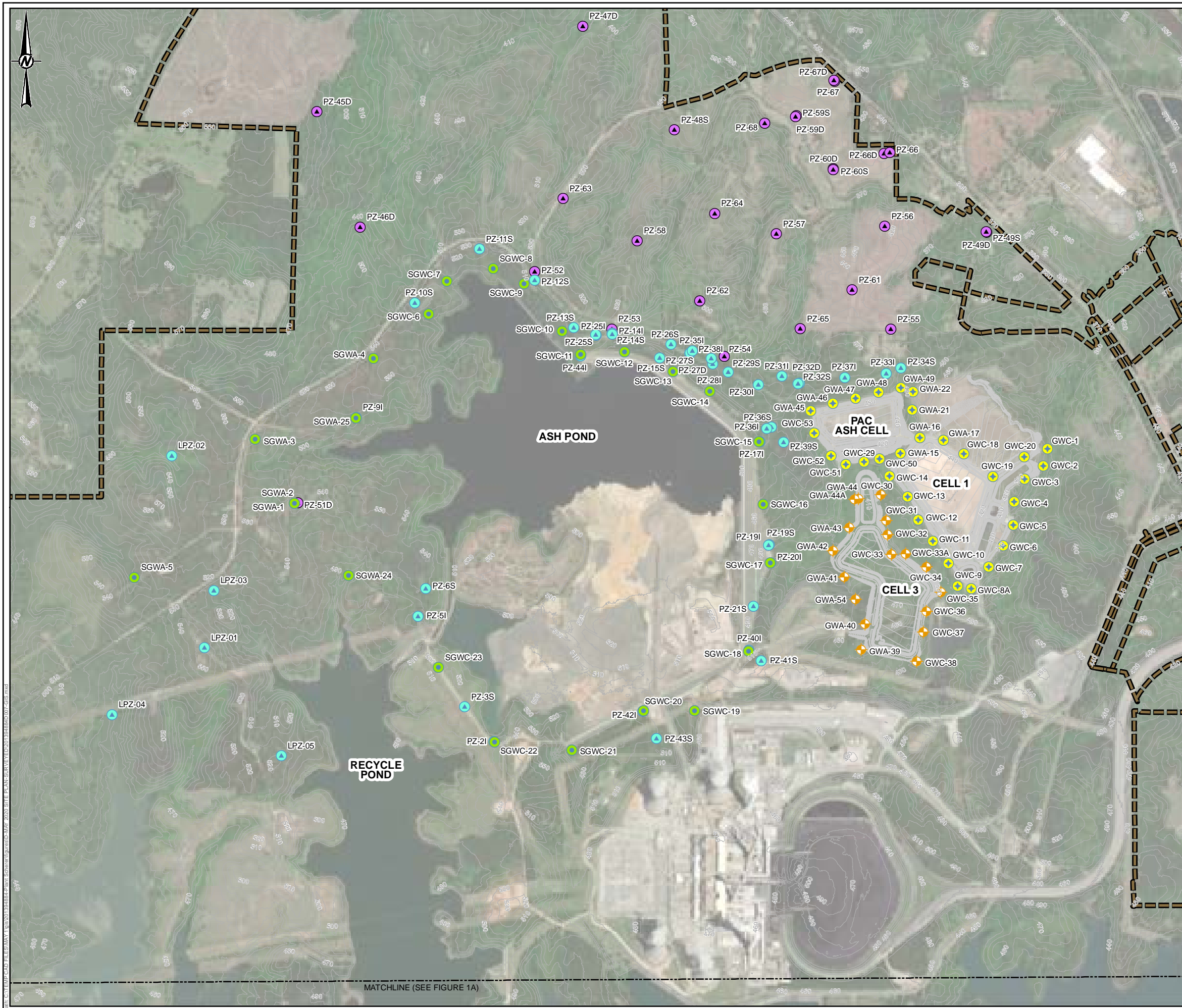
Rachel P. Kirkman, PG
Principal and Senior Consultant

ssg/dlp/rpk

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

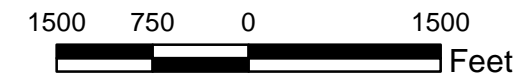
Attachments: Figure 1 – Site Plan
Figure 1A – Site Plan
Table 1 – Summary of Piezometer Construction Details
Table 2 – Summary of Piezometer Development Data
Appendix A – Cascade Drilling Bond
Appendix B – Boring Logs/Construction Diagrams and Development Forms
Appendix C – Certified Well Surveys

[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.



CLIENT
 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

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.	SAMPLE NO.	TYPE			REC
					DEPTH (ft)					
0	505	0.00 - 10.00 Hydro-vac to clear utilities							WELL CASING Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags FILTER PACK SEAL Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic	
10	500	10.00 - 14.00 CL, CLAY, low to moderate plasticity, dark red, moist, w-PL, soft, quartz, vermiculite, plagioclase	CL	[Diagonal Hatching]	499.7 10.00	1	ROTO 7.00 SONIC 5.00	Grout - Riser -		
14.00	495	14.00 - 15.00 CL, CLAY, low to moderate plasticity, orange-red brown, moist, w-PL, soft, quartz, vermiculite, plagioclase	CL	[Diagonal Hatching]	495.7 14.00					
15.00	495	15.00 - 25.00 CL, CLAY, low to moderate plasticity, dark red, moist, w-PL, soft, quartz, vermiculite, plagioclase	CL	[Diagonal Hatching]	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	[Diagonal Hatching]		2	ROTO 7.00 SONIC 10.00			
25	485	25.00 - 35.00 CL, CLAY, low plasticity, orange red clay, soft, w-PL	CL	[Diagonal Hatching]	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	[Diagonal Hatching]		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	[Vertical Lines]	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		
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>							<p>WELL CASING Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags</p> <p>FILTER PACK SEAL Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
45	465		SM			4	ROTO <u>9.50</u> SONIC 10.00		
50	460					5	ROTO <u>11.00</u> SONIC 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	[Hatched Pattern]	456.2 53.50				
60	450	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				
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 <u>10.00</u> SONIC 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				
80	430	massive water staining from 78'-80' 83'-85' metagabbro Log continued on next page	SM			8	ROTO <u>9.00</u> 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: 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>WELL CASING Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags</p> <p>FILTER PACK SEAL Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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>WELL CASING Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags</p> <p>FILTER PACK SEAL Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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

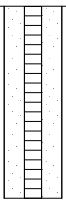
SHEET 5 of 5

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			WELL CASING Interval: 0' - 110' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded
165	345	Boring completed at 165.00 ft			344.7					WELL SCREEN Interval: 110' - 165' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"
170	340									FILTER PACK Interval: 105' - 165' Type: #1 Sand Quantity: 20.5bags
175	335									FILTER PACK SEAL Interval: 101.8' - 105' Type: Pel Plug Quantity: 5gal Bucket
180	330									ANNULUS SEAL Interval: 0' - 101.8' Type: Cement-Bentonite Quantity: 1100lbs Cement, 20lbs Bentonite, 160gal Water
185	325									WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum
190	320									DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
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

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							WELL CASING Interval: 0' - 23.5' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 23.5' - 53.5' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 20' - 53.5' Type: #1 Sand Quantity: 9.5 Bags FILTER PACK SEAL Interval: 16' - 20' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 16' Type: Cement-Bentonite Quantity: 300lbs Cement, 10lbs Bentonite, 30gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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	1	8.00 10.00	Bentonite -	
430					15.00				
20									
425									
25									
420						2	8.00 10.00	Sand -	
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	3	10.00 10.00		
410			BR		33.00				
40		Rock sample collected 49.0'-49.5'							

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: Vern Olson

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



Log continued on next page

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>WELL CASING Interval: 0' - 23.5' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 23.5' - 53.5' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 20' - 53.5' Type: #1 Sand Quantity: 9.5 Bags</p> <p>FILTER PACK SEAL Interval: 16' - 20' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 16' Type: Cement-Bentonite Quantity: 300lbs Cement, 10lbs Bentonite, 30gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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

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	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	Sch 40 PVC Riser Grout Bentonite	WELL CASING Interval: 0' - 10.1' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 10.1' - 25.1' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3' FILTER PACK Interval: 8' - 25.1' Type: 20/30 Sand Quantity: 5.5 Bags FILTER PACK SEAL Interval: 6' - 8' Type: Pel Plug Quantity: 1-5 gallon bucket ANNULUS SEAL Interval: 0' - 6' Type: Cement-Bentonite Quantity: 95lbs Cement, 5lbs Bentonite, 10gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
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	Sand	
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	0.010" Slotted Screen	
15	390	Rock sample collected 19.7'-20.3'	BR		380.8				
20	385	Boring completed at 26.00 ft							
25	380								
30	375								
35	370								
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: 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>WELL CASING Interval: 0' - 50.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 50.75' - 60.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 48' - 60.75' Type: #1 Sand Quantity: 4 Bags</p> <p>FILTER PACK SEAL Interval: 44' - 48' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 44' Type: Cement-Bentonite Quantity: 600lb Cement, 30lb Bentonite, 70gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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				
20	420		ML				2			ROTO 10.00 SONIC 10.00
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						Bentonite - Sand - 0.010" Slotted - Screen	WELL CASING Interval: 0' - 50.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 50.75' - 60.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 48' - 60.75' Type: #1 Sand Quantity: 4 Bags FILTER PACK SEAL Interval: 44' - 48' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 44' Type: Cement-Bentonite Quantity: 600lb Cement, 30lb Bentonite, 70gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic		
											4	ROTO -10.00 SONIC 10.00
45	395											
50	390					6	ROTO 5.00 SONIC 10.00	380.3 61.00				
	380	61.00 - 65.00 ML, sandy SILT, Transitionally Weathered Rock, weathered biotite gneiss, driller noted first rock encountered at 61'	TWR									
	65	Boring completed at 65.00 ft										
55	385											
60	380											
65	375											
70	370											
75	365											
80	360											

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.	SAMPLE NO.	TYPE	REC		
					DEPTH (ft)					
0		0.00 - 2.00 SM, SILTY SAND, fine sand, brown, wet, w<PL, non-plastic, loose/soft, biotite and quartz	SM		362.9				Grout — Riser —	<p>WELL CASING Interval: 0' - 76' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 76' - 106' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 73.5' - 106' Type: #1 Sand Quantity: 9 Bags</p> <p>FILTER PACK SEAL Interval: 69.8' - 73.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 69.8' Type: Cement-Bentonite Quantity: 554lbs Cement, 20lbs Bentonite, 60gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
		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		4.00					
5	360	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					
		8.00 - 15.00 SM, SAND and SILT, moist, dark green, w<PL, non-plastic, loose, firm, large white grain, plagioclase	SM		8.00					
10	355	8.00 - 15.00 SM, SAND and SILT, moist, dark green, w<PL, non-plastic, loose, firm, large white grain, plagioclase	SM		356.9					
		15.00 - 35.00 SM, Sand and Silt, moist, medium green, w<PL, non-plastic, loose, firm, large white grain, plagioclase, RESIDUUM/SAPROLITE	SM		15.00					
15	350	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					
					11.00	1	ROTO			
					5.00		SONIC			
					10.00					
20	345				10.00	2	ROTO			
					10.00		SONIC			
					10.00					
					10.00					
25	340		SM		10.00					
					10.00					
30	335				10.00	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					
					6.00	4	ROTO			
					10.00		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 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]	WELL CASING Interval: 0' - 76' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 76' - 106' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 73.5' - 106' Type: #1 Sand Quantity: 9 Bags FILTER PACK SEAL Interval: 69.8' - 73.5' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 69.8' Type: Cement-Bentonite Quantity: 554lbs Cement, 20lbs Bentonite, 60gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
45	320						4		
50	315				5	ROTO 10.00 SONIC 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			
60	305						6	ROTO 9.70 SONIC 10.00	
65	300				7	ROTO 7.80 SONIC 10.00	Bentonite -		
75	290		BR	[Red X Pattern]	289.9	75.00			
80	285						8	ROTO 10.00 SONIC 10.00	Sand -

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	[Red cross-hatch pattern]	279.9	8	ROTO 10.00 SONIC 10.00	0.010" Slotted - Screen	<p>WELL CASING Interval: 0' - 76' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 76' - 106' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 73.5' - 106' Type: #1 Sand Quantity: 9 Bags</p> <p>FILTER PACK SEAL Interval: 69.8' - 73.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 69.8' Type: Cement-Bentonite Quantity: 554lbs Cement, 20lbs Bentonite, 60gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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	[Red cross-hatch pattern]	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	[Red cross-hatch pattern]		10	ROTO 7.70 SONIC 11.00		
105	260				258.9				
		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>WELL CASING Interval: 0' - 15' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 15' - 25' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 13' - 25' Type: #1 Sand Quantity: 4.5 Bags</p> <p>FILTER PACK SEAL Interval: 7' - 13' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 7' Type: Cement-Bentonite Quantity: 200lbs Cement, 10lb Bentonite, 20gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
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						
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		
25	340	Boring completed at 25.50 ft							

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS SURVEY UPDATED (1).GPI | 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.							WELL CASING Interval: 0' - 90' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 90' - 100' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 87' - 100' Type: U-Pack Prepack Quantity: 4 bags FILTER PACK SEAL Interval: 84' - 87' Type: Pel Plug Quantity: 2.5 gal bucket ANNULUS SEAL Interval: 0' - 84' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 7lbs Bentonite, 17gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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

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]	WELL CASING Interval: 0' - 90' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 90' - 100' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 87' - 100' Type: U-Pack Prepack Quantity: 4 bags FILTER PACK SEAL Interval: 84' - 87' Type: Pel Plug Quantity: 2.5 gal bucket ANNULUS SEAL Interval: 0' - 84' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 7lbs Bentonite, 17gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
		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		[Well Diagram]	
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		[Well Diagram]	
			TWR							
60	410									
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		[Well Diagram]	
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		[Well Diagram]	
80		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: 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

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	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		370.66	8	ROTO 7.75 SONIC 10.00		WELL CASING Interval: 0' - 90' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 90' - 100' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 87' - 100' Type: U-Pack Prepack Quantity: 4 bags FILTER PACK SEAL Interval: 84' - 87' Type: Pel Plug Quantity: 2.5 gal bucket ANNULUS SEAL Interval: 0' - 84' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 7lbs Bentonite, 17gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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				
100	370	Boring completed at 100.00 ft								

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.	SAMPLE NO.	TYPE		
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>WELL CASING Interval: 0' - 116' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 116' - 126' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 113' - 126' Type: 20/30 Sand Quantity: 6 Bags</p> <p>FILTER PACK SEAL Interval: 109.8' - 113' Type: Pel Plug Quantity: 5gal bucket</p> <p>ANNULUS SEAL Interval: 0' - 109.8' Type: Cement-Bentonite Quantity: 250lbs Cement, 15lbs Bentonite, 30gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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		527.2	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		523.2				
20		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		522.2	2	5.00 10.00		
520		21.00 - 26.00 No Recovery			21.00				
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		517.2	3	6.50 10.00		
30									
510		32.50 - 36.00 Wash out			510.7				
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		507.2	4	10.00 10.00		
40					504.2				
			ML		39.00				

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>WELL CASING Interval: 0' - 116' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 116' - 126' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 113' - 126' Type: 20/30 Sand Quantity: 6 Bags</p> <p>FILTER PACK SEAL Interval: 109.8' - 113' Type: Pel Plug Quantity: 5gal bucket</p> <p>ANNULUS SEAL Interval: 0' - 109.8' Type: Cement-Bentonite Quantity: 250lbs Cement, 15lbs Bentonite, 30gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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					
495		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	ML		487.2					
50		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		483.7	6		10.00	10.00	
485		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	ML		477.2					
60		68.00 - 76.00 Wash out			475.2					
475		76.00 - 80.90 BIOTITE GNEISS, 5Y 4/1 olive grey, biotite, plagioclase, quartz, weathered from fractures, hard	BR		467.2	7		2.00	10.00	
70					467.2					
470					76.00	8		4.90	10.00	
75										
465										
80		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


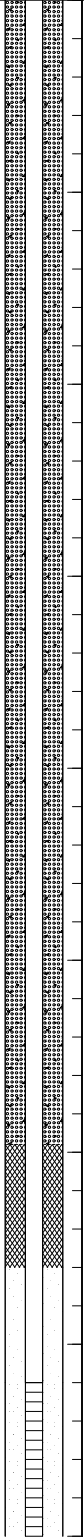
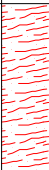


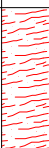


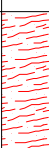




SHEET 3 of 4

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		462.3 80.90	8		4.90 10.00		<p>WELL CASING Interval: 0' - 116' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 116' - 126' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 113' - 126' Type: 20/30 Sand Quantity: 6 Bags</p> <p>FILTER PACK SEAL Interval: 109.8' - 113' Type: Pel Plug Quantity: 5gal bucket</p> <p>ANNULUS SEAL Interval: 0' - 109.8' Type: Cement-Bentonite Quantity: 250lbs Cement, 15lbs Bentonite, 30gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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		457.2 86.00					
85		91.00 - 92.00 BIOTITE GNEISS, 5Y 4/1 olive grey, biotite, plagioclase, quartz, weathered from fractures, hard	BR		452.2 91.00	9		6.00 10.00		
90		92.00 - 96.00 No Recovery	BR		451.2 92.00					
95		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		447.2 96.00					
100		100.20 - 101.40 Transitionally Weathered Rock, silty SAND, rich in amphibolite-plagioclase-muscovite, some quartz, loose, highly weathered	BR		443 100.20	10		5.20 10.00		
440		101.40 - 106.00 No Recovery	BR		441.8 101.40					
105		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		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		427.2 116.00	11		3.80 10.00	Bentonite -	
110		118.0' - 118.5' Rock sample collected	BR						0.010" Slotted - Screen	
425		118.0' - 118.5' Rock sample collected	BR			12		5.50 10.00		
115		118.0' - 118.5' Rock sample collected	BR							
120		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: C. Hall

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



RECORD OF BOREHOLE PZ-51D

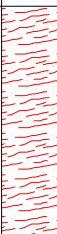
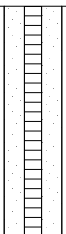
SHEET 4 of 4

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	REC			
120		116.00 - 126.00 BIOTITE GNEISS, N4 medium dark grey, biotite-plagioclase-muscovite-quartz, heavily fractured. Quartz vein at 117', compact	BR					12	5.50 10.00	Sand - 	<p>WELL CASING Interval: 0' - 116' Material: Sch 40 PVC Diameter: 4" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 116' - 126' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 113' - 126' Type: 20/30 Sand Quantity: 6 Bags</p> <p>FILTER PACK SEAL Interval: 109.8' - 113' Type: Pel Plug Quantity: 5gal bucket</p> <p>ANNULUS SEAL Interval: 0' - 109.8' Type: Cement-Bentonite Quantity: 250lbs Cement, 15lbs Bentonite, 30gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
420		Rock sample collected 118.0'-118.5' (Continued)				417.2					
125		Boring completed at 126.00 ft									
415											
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>WELL CASING Interval: 0' - 67' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 67' - 77' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 65' - 77' Type: #6 Sand Quantity: 3 bags</p> <p>FILTER PACK SEAL Interval: 61.5' - 65' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 61.5' Type: Cement-Bentonite Quantity: 554.4lbs Cement, 20lbs Bentonite, 70gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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				
35	485	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				
40	480	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>WELL CASING Interval: 0' - 67' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 67' - 77' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 65' - 77' Type: #6 Sand Quantity: 3 bags</p> <p>FILTER PACK SEAL Interval: 61.5' - 65' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 61.5' Type: Cement-Bentonite Quantity: 554.4lbs Cement, 20lbs Bentonite, 70gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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

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>WELL CASING Interval: 0' - 35' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 35' - 45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 32' - 35' Type: #1 Sand Quantity: 3 Bags</p> <p>FILTER PACK SEAL Interval: 27' - 32' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 27' Type: Cement-Bentonite Quantity: 450lbs Cement, 17lbs Bentonite, 45gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>	
5.10			CL					Grout -			
8.00	505	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		505.6						Riser -
13.00	500	13.00 - 17.00 ML, CLAYEY SILT, strong brown, minor relict foliation, deeply weathered biotite-hornblende gneiss. Residual soil.	ML		500.6						
17.00	495	17.00 - 20.00 ML, CLAYEY SILT, 7.5 YR 5/8 strong brown, very weathered hornblende gneiss, relict foliation.	ML		496.6						
20.00	490	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		493.6	2	ROTO 10.00 SONIC 10.00				
25.00	485	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		488.6			Bentonite -			
32.00	480	32.00 - 35.00 No recovery			481.6						
35.00	475	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		478.6	4	ROTO 6.00 SONIC 10.00	Sand -			
40		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 Olson

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



RECORD OF BOREHOLE PZ-53

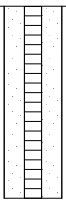
SHEET 2 of 2

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	0.010" Slotted - Screen		WELL CASING Interval: 0' - 35' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 35' - 45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 32' - 35' Type: #1 Sand Quantity: 3 Bags FILTER PACK SEAL Interval: 27' - 32' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 27' Type: Cement-Bentonite Quantity: 450lbs Cement, 17lbs Bentonite, 45gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
45					Boring completed at 45.00 ft							
45												
465												
50												
460												
55												
455												
60												
450												
65												
445												
70												
440												
75												
435												
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	REC		
0	490	0.00 - 10.00 Hydro-vac for utility clearance.								WELL CASING Interval: 0' - 35' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 35' - 45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 33' - 45' Type: #1 Sand Quantity: 4 Bags FILTER PACK SEAL Interval: 29' - 33' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 29' Type: Cement-Bentonite Quantity: 500lbs Cement, 17lbs Bentonite, 45gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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			
		23.00 - 24.00 CL, CLAY, red brown, soft to moist, low plasticity, minor muscovite and vermiculite, W < PL.	CL		467.2 23.00 466.2 24.00					
25	465	24.00 - 31.00 CL, CLAY with trace to some silt, ocherish brown, moderate plasticity, W ~ PL, moist, soft to firm.	ML							
30	460				459.2 31.00	3	ROTO 10.00 SONIC 10.00	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			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

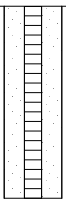
SHEET 2 of 2

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 	WELL CASING Interval: 0' - 35' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 35' - 45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 33' - 45' Type: #1 Sand Quantity: 4 Bags FILTER PACK SEAL Interval: 29' - 33' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 29' Type: Cement-Bentonite Quantity: 500lbs Cement, 17lbs Bentonite, 45gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
45	445	Boring completed at 45.00 ft						445.2		
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						WELL CASING Interval: 0' - 26' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 26' - 36' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 24' - 36' Type: #1 Sand Quantity: 3.5 Bags FILTER PACK SEAL Interval: 18.5' - 24' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 18.5' Type: Cement-Bentonite Quantity: 300lbs Cement, 15lbs Bentonite, 35gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
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 10.00	1	ROTO 3.00 SONIC 5.00		
15									
430									
20									
425									
25		23.50 - 25.00 ML, SILT, weathered amphibolite, hornblende rich, gley 2 4/1 dark greenish grey. Saprolite. 25' driller noted top of transitionally weathered rock, hard rock encountered interlayered with weathered saprolite. 25.00 - 36.00 Transitionally weathered rock, interlayered unweathered rock and saprolite, poor recovery (saprolite washed out).	ML		420.7 23.50 419.2 25.00				
30									
415									
35									
410									
35		Boring completed at 35.00 ft			408.2 36.00				
405									
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: 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>WELL CASING Interval: 0' - 35.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 35.75' - 45.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 33' - 46' Type: #1 Sand Quantity: 4 bags</p> <p>FILTER PACK SEAL Interval: 30' - 33' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 30' Type: Cement Quantity: 600lbs Cement, 70gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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		
25	405	19.5-20.6 pulverized predominantly Na-plagioclase layer, 2.5 Y 7/3 pale brown. 20.60 - 21.00 TWR, weathered BIOTITE GNEISS, very dark grey to black, medium grained. 21.00 - 34.00 TWR, weathered BIOTITE GNEISS, slight to moderate oxidation throughout. oxidation staining at 28', fracture 30'-30.5'	TWR		410.2 21.00	3	ROTO 4.00 SONIC 5.00		
30	400		TWR			4	ROTO 8.00 SONIC 10.00	Benonite -	
35	395	34.00 - 36.00 Core barrel drop in soft zone, no recovery.			396.8 34.00				
40	390	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	#1 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: Tom Ardito

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



RECORD OF BOREHOLE PZ-56

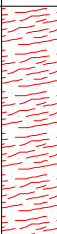
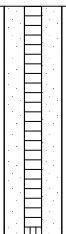
SHEET 2 of 2

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	0.010" Slotted Screen 	<p>WELL CASING Interval: 0' - 35.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 35.75' - 45.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 33' - 46' Type: #1 Sand Quantity: 4 bags</p> <p>FILTER PACK SEAL Interval: 30' - 33' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 30' Type: Cement Quantity: 600lbs Cement, 70gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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.	SAMPLE NO.	TYPE	REC		
					DEPTH (ft)					
0	435	0.00 - 5.00 Hand auger for utility clearance.							<p>WELL CASING Interval: 0' - 49' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 49' - 59' Material: U-Pack Prepack Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 46' - 59' Type: #6 Sand Quantity: 3 bags</p> <p>FILTER PACK SEAL Interval: 43' - 46' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 43' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 10lbs Bentonite, 35gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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, relict 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, relict 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					
20	415	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 19.00					
25	410	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		413.4 23.00	3	ROTO 4.50 SONIC 10.00			
30	405	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		406.3 30.10					
35	400	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		403.4	4	ROTO 8.20 SONIC 10.00			
40		Log continued on next page			396.4	5	ROTO 9.00 SONIC 10.00			

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>WELL CASING Interval: 0' - 49' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 49' - 59' Material: U-Pack Prepack Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 46' - 59' Type: #6 Sand Quantity: 3 bags</p> <p>FILTER PACK SEAL Interval: 43' - 46' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 43' Type: Cement-Bentonite Quantity: 277.2lbs Cement, 10lbs Bentonite, 35gal water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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	REC		
0		0.00 - 11.50 (0'-10') Hydro-vac for utility clearance. (10'-11.5') Core loss.								<p>WELL CASING Interval: 0' - 36' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 36' - 46' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 33.5' - 46' Type: #1 Sand Quantity: 5 Bags</p> <p>FILTER PACK SEAL Interval: 30.5' - 33.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 30.5' Type: Cement-Bentonite Quantity: 277lbs Cement, 10lbs Bentonite, 30gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
485										
5										
10										
480										
15										
475		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	[Hatched Pattern]	477.8 11.50	1	ROTO 4.50 SONIC 6.00			
475		13.50 - 20.00 SM, SILTY SAND with trace clay and gravels, yellow brown, non PL, W < PL, dry to moist, loose.	SM	[Vertical Lines]	475.8 13.50					
470										
20		20.00 - 21.00 ML, SILT with trace sand and clay, soft, moist, non PL, W < PL, increased mica content, red-brown.	ML	[Horizontal Lines]	469.3 20.00	2	ROTO 10.00 SONIC 10.00			
465		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	[Vertical Lines]	468.3 21.00					
25										
460		26.00 - 34.00 SP, SAND, fine grain with trace to some silt, uniform graded, light to dark green to tan, compact.	SP	[Dotted Pattern]	463.3 26.00	3	ROTO 9.20 SONIC 10.00	Bentonite -		
30										
455		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	[Vertical Lines]	455.3 34.00			Sand -		
35										
450		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	[Vertical Lines]	453.3 36.00	4	ROTO 10.00 SONIC 10.00			
40										

BOREHOLE RECORD PLANT SCHERER CRG 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: 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							<p>WELL CASING Interval: 0' - 36' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 36' - 46' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 33.5' - 46' Type: #1 Sand Quantity: 5 Bags</p> <p>FILTER PACK SEAL Interval: 30.5' - 33.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 30.5' Type: Cement-Bentonite Quantity: 277lbs Cement, 10lbs Bentonite, 30gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
445				443.3	4	ROTO SONIC	-10.00 10.00			
45		Boring completed at 46.00 ft								
440										
50										
440										
55										
435										
55										
430										
60										
430										
65										
425										
65										
420										
70										
420										
75										
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.	TYPE		
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.							WELL CASING Interval: 0' - 54' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 54' - 69' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 52' - 64' Type: #1 Sand Quantity: 5 bags FILTER PACK SEAL Interval: 49.7' - 52' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 49.7' Type: Cement-Bentonite Quantity: 900lbs Cement, 60lbs Bentonite, 120gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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						
370		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					
15				11.78	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/HORNBLLENDE GNEISS, quartz-plagioclase-biotite-hornblende with trace pyrite < 1mm diameter unweathered, fine to medium grained, well foliated	BR						
30				355.9	3	ROTO 3.00 SONIC 3.00			
350		30.00 - 39.00 AMPHIBOLITE/HORNBLLENDE GNEISS, fracture/oxidized zone at ~38', moderate to strong, foliation, fine to medium grained, unweathered, competent, greenish black with white.		352.9					
35			BR	30.00	4	ROTO 7.00 SONIC 9.00			
345		38.00: Fracture/oxidized zone		343.9					
40		Log continued on next page	BR	39.00	5	ROTO 9.00 SONIC 10.00			

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>WELL CASING Interval: 0' - 54' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 54' - 69' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 52' - 64' Type: #1 Sand Quantity: 5 bags</p> <p>FILTER PACK SEAL Interval: 49.7' - 52' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 49.7' Type: Cement-Bentonite Quantity: 900lbs Cement, 60lbs Bentonite, 120gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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									
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 style="font-size: small;">Grout - Riser - Bentonite - #6 Sand - 0.010" Slotted Screen</p>	<p>WELL CASING Interval: 0' - 14' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 14' - 24' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 11.5' - 24' Type: #6 Sand Quantity: 3 bags</p> <p>FILTER PACK SEAL Interval: 7' - 11.5' Type: Pel-Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 7' Type: Cement-Bentonite Quantity: 46.2lbs Cement, 2lbs Bentonite, 10gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
380										
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			
10		8.75 - 11.75 SP, SAND, fine to medium grained, greenish grey, illite-hornblende/amphibolite-quartz, non-cohesive, wet, loose.	SP		374.05 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			
15										
365										
20		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			
		20.50 - 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					
		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					
25										
355										
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

SHEET 1 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

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES		MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS	
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	TYPE			REC
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 -	WELL CASING Interval: 0' - 69.4' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 69.4' - 99.7' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3" FILTER PACK Interval: 66.6' - 99.7' Type: #1 Sand Quantity: 8.5 Bags FILTER PACK SEAL Interval: 62.3' - 66.6' Type: Pel Plug Quantity: 5gal Bucket ANNULUS SEAL Interval: 0' - 66.6' Type: Cement-Bentonite Quantity: 1,050lbs Cement, 42lbs Bentonite, 140gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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			Riser -
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			
30	355	30.00 - 37.00 ML, sandy CLAYEY SILT, some relict foliation present interlayered biotite hornblende gneiss. SAPROLITE	ML		356.4	3			
40	350	37.00 - 40.00 Transitionally weathered rock, slightly weathered to weathered biotite gneiss	TWR		349.4	3			
		Log continued on next page			346.4				

BOREHOLE RECORD PLANT SCHERER CR6 INVESTIGATION BORING LOGS. SURVEY UPDATED (1).GPJ. PIEMONT.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		40.00	4	ROTO 6.00 SONIC 8.00		<p>WELL CASING Interval: 0' - 69.4' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 69.4' - 99.7' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 66.6' - 99.7' Type: #1 Sand Quantity: 8.5 Bags</p> <p>FILTER PACK SEAL Interval: 62.3' - 66.6' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 66.6' Type: Cement-Bentonite Quantity: 1,050lbs Cement, 42lbs Bentonite, 140gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>	
45	340	45.50 - 52.00 BIOTITE GNEISS interlayered with HORNBLLENDE GNEISS, fine grained, well foliated, primarily biotite gneiss Biotite slight oxidation zone at 46', trace <1mm-2mm red garnets throughout slight oxidation zone at 50.5' Migmatitic texture at 51'-52'			340.9					5
50	335	52.00 - 60.50 BIOTITE GNEISS, well foliated, greenish black and white layers, fine grained plagioclase-quartz-hornblende-biotite	334.4	6	ROTO 7.00 SONIC 8.00					
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	325.9			7	ROTO 11.00 SONIC 10.00			
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	316.4	8	ROTO 10.00 SONIC 10.00					
65	320		70.00							
70	315		306.4							
75	310									
80										

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 wavy lines]	80.00	9	ROTO 8.00 SONIC 10.00		<p>WELL CASING Interval: 0' - 69.4' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 69.4' - 99.7' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 66.6' - 99.7' Type: #1 Sand Quantity: 8.5 Bags</p> <p>FILTER PACK SEAL Interval: 62.3' - 66.6' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 66.6' Type: Cement-Bentonite Quantity: 1,050lbs Cement, 42lbs Bentonite, 140gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>	
90	295	90.00 - 100.00 BIOTITE GNEISS, well foliated	BR	[Red wavy lines]	296.4 90.00	10	ROTO 10.00 SONIC 10.00			
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>WELL CASING Interval: 0' - 10' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 10' - 20' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 8' - 20' Type: #1 Sand Quantity: 3 Bags</p> <p>FILTER PACK SEAL Interval: 5' - 8' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 5' Type: Cement-Bentonite Quantity: 200lbs Cement, 14lbs Bentonite, 30gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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		
10	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					
15	370				373.9			10.00		
					366.4			10.00		
20	365	Boring completed at 20.00 ft								0.010" Slotted Screen
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.	SAMPLE NO.	TYPE		
0		0.00 - 10.00 Hydro-vac for utility clearance.							<p>WELL CASING Interval: 0' - 39.45' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 39.45' - 49.45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 37.25' - 49.45' Type: #1 Sand Quantity: 3.5 Bags</p> <p>FILTER PACK SEAL Interval: 33.8' - 37.25' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 33.8' Type: Cement-Bentonite Quantity: 900lbs Cement, 45lbs Bentonite, 120gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
435									
5									
430									
10		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				
425		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		425.3				
15									
420									
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				
415		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		416.8				
25		21.00 - 24.00 ML, sandy SILT, very fine to fine sand, very plae brown, dry, non-cohesive, metagranitic, slight foliation, SAPROLITE	ML		20.00				
410		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		415.8				
30		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		21.00				
405		32.00 - 35.00 ML, SILT, Transitionally weathered rock, very pale brown, metagranitic, slightly foliated, medium grained, slightly weathered, dry	TWR		412.8				
35		35.00 - 38.00 ML, sandy CLAYEY SILT, very weathered biotite gneiss, greyish brown, well foliated, fine to medium grained, moist	ML		24.00				
400		38.00 - 40.00 SP/SM, SAND to SILTY SAND, Transitionally weathered rock, weathered biotite gneiss, bottom is unweathered to slightly weathered	TWR		410.8				
40					26.00				

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

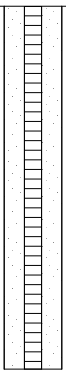
SHEET 2 of 2

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>WELL CASING Interval: 0' - 39.45' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 39.45' - 49.45' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 37.25' - 49.45' Type: #1 Sand Quantity: 3.5 Bags</p> <p>FILTER PACK SEAL Interval: 33.8' - 37.25' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 33.8' Type: Cement-Bentonite Quantity: 900lbs Cement, 45lbs Bentonite, 120gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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		390.8 46.00					
390					390.8	5	ROTO 4.00 SONIC 4.00			
50		Boring completed at 50.00 ft			386.8					
385										
55										
380										
60										
375										
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: 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


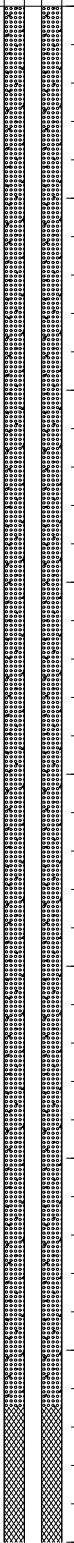

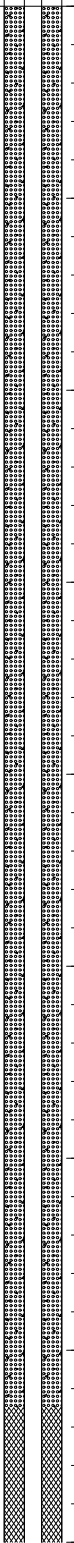

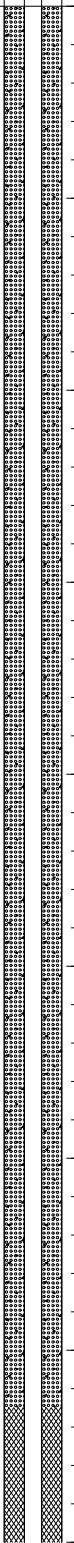

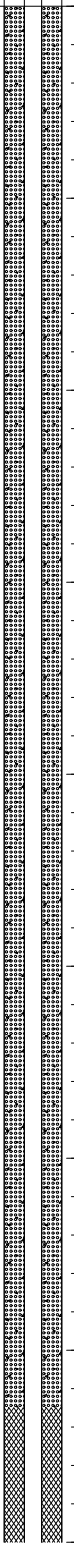

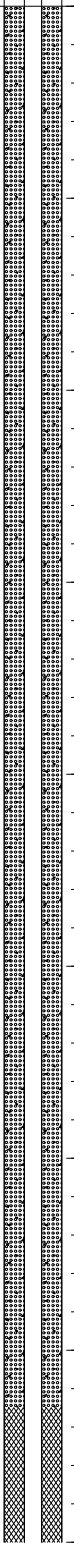

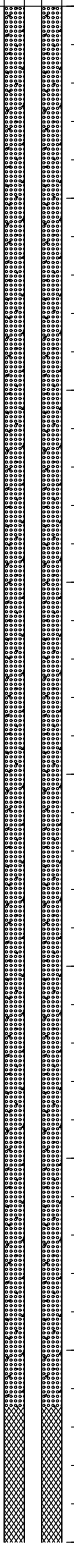
PROJECT: Plant Scherer
 PROJECT NUMBER: 20139484
 DRILLED DEPTH: 52.00 ft
 LOCATION: Juliette, GA

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

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, red, no structure, deeply weathered biotite gneiss, cohesive, soft, moist, w<PL, RESIDUUM	CL					 <p style="font-size: small;">Grout - Riser -</p>	<p>WELL CASING Interval: 0' - 42.25' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 42.25' - 52.25' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 40' - 52.25' Type: #1 Sand Quantity: 3.5 Bags</p> <p>FILTER PACK SEAL Interval: 36.5' - 40' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 36.5' Type: Cement-Bentonite Quantity: 450lbs Cement, 30lbs Bentonite, 60gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
495									
5									
10		10.00 - 15.00 ML, SILT, very weathered biotite gneiss, yellowish brown, mica flakes, SAPROLITE	ML		488.3			 <p style="font-size: small;">Grout - Riser -</p>	
15									
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	ML		483.3	1	ROTO 8.00 SONIC 10.00	 <p style="font-size: small;">Grout - Riser -</p>	
15									
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		478.3			 <p style="font-size: small;">Grout - Riser -</p>	
25									
25									
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		468.3			 <p style="font-size: small;">Grout - Riser -</p>	
35									
35		35.00 - 40.00 ML, SILT and clayey SILT, weathered biotite gneiss, mica flakes, brown to greyish brown, mottled, some foliation present, SAPROLITE	ML		463.3	3	ROTO 10.00 SONIC 10.00	 <p style="font-size: small;">Grout - Riser - Bentonite -</p>	
40									
40		458.3							

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-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>WELL CASING Interval: 0' - 42.25' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 42.25' - 52.25' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 40' - 52.25' Type: #1 Sand Quantity: 3.5 Bags</p> <p>FILTER PACK SEAL Interval: 36.5' - 40' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 36.5' Type: Cement-Bentonite Quantity: 450lbs Cement, 30lbs Bentonite, 60gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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

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.							<p>WELL CASING Interval: 0' - 30' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 30' - 40' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 28' - 40' Type: #1 Sand Quantity: 3.5 Bags</p> <p>FILTER PACK SEAL Interval: 24.2' - 28' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 24.2' Type: Cement-Bentonite Quantity: 750lbs Cement, 35lbs Bentonite, 87gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>	
495								<p>Grout -</p> <p>Riser -</p> <p>Bentonite -</p> <p>Sand -</p> <p>0.010" Slotted Screen</p>		
5										
490										
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		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		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		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			
23.00		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					
25										
26.00		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			
28.00		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		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					
35										
465										
460										
40		Boring completed at 40.00 ft			458.9					

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-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>WELL CASING Interval: 0' - 59' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 59' - 69' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 57' - 69' Type: #1 Sand Quantity: 4.5 Bags</p> <p>FILTER PACK SEAL Interval: 53.3' - 57' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 53.3' Type: Cement-Bentonite Quantity: 600lbs Cement, 50lbs Bentonite, 80gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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	20.00 - 26.00 SM, SILTY SAND, biotite gneiss, pale brown to bro, dry to wet, SAPROLITE	SM		456					
					20.00	3	ROTO 6.00 SONIC 6.00			
25	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		450					
					26.00	4	ROTO 4.00 SONIC 4.00			
30	445	30.00 - 40.00 BIOTITE GNEISS, biotite is medium grained, oxidation, amphibolite gneiss is foliated and fine grained	BR		446					
					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		Bentonite	
45	430				426					
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		Bentonite	
55	420				420					
60	415	56.00 - 60.00 BIOTITE GNEISS, slightly weathered to unweathered, well foliated, fine grained	BR		56.00	8	ROTO 2.50 SONIC 4.00		Sand	
65	410				416					
70	405	60.00 - 70.00 BIOTITE GNEISS, foliated, medium grained, white and black	BR		60.00	9	ROTO 8.50 SONIC 10.00		0.010" Slotted Screen	
75	400				406					
80	405	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>WELL CASING Interval: 0' - 20' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 20' - 30' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 17.5" - 30' Type: #1 Sand Quantity: 3.5 Bags</p> <p>FILTER PACK SEAL Interval: 14' - 17.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 14' Type: Cement-Bentonite Quantity: 400lbs Cement, 24lbs Bentonite, 60gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
5	425	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			
10	420									
15	415	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 13.00	2	ROTO 9.50 SONIC 10.00			
20	410	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 20.00					
25	405	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 23.50	3	ROTO 12.00 SONIC 10.00			
30	400	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 26.50					
		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 28.50 399.6					
		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 Pattern]	413.4	1	ROTO 8.50 SONIC 10.00	Cement - Riser -	<p>WELL CASING Interval: 0' - 45' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 45' - 60' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 41.8' - 60' Type: #1 Sand Quantity: 5.5 Bags</p> <p>FILTER PACK SEAL Interval: 38' - 41.8' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 38' Type: Cement-Bentonite Quantity: 600lbs Cement, 46lbs Bentonite, 70gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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	[Vertical Lines]	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	[Vertical Lines]	408.4	2	ROTO 6.50 SONIC 10.00		
15			ML	[Vertical Lines]	10.00				
20			ML	[Vertical Lines]		3	ROTO 9.50 SONIC 10.00		
25			ML	[Vertical Lines]		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	[Vertical Lines]	388.4				
35			ML	[Vertical Lines]	30.00				
38			SM	[Vertical Lines]	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>WELL CASING Interval: 0' - 45' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 45' - 60' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 41.8' - 60' Type: #1 Sand Quantity: 5.5 Bags</p> <p>FILTER PACK SEAL Interval: 38' - 41.8' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 38' Type: Cement-Bentonite Quantity: 600lbs Cement, 46lbs Bentonite, 70gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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 -	WELL CASING Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A FILTER PACK Interval: N/A Type: N/A Quantity: N/A FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A ANNULUS SEAL Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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 5.00 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						6" Casing -	
25	400		SM			2	ROTO 4.50 SONIC 10.00		
30	395					3	ROTO 10.00 SONIC 10.00		
35	390	33.00 - 36.00 SM, SILTY SAND, grey dark brown, weathered biotite gneiss, rich in biotite-plagioclase-quartz, SAPROLITE	SM		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	TWR		388.4 36.00		4	ROTO 10.00 SONIC 10.00	

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

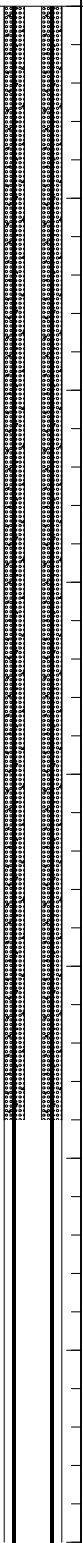
PROJECT: Plant Scherer
 PROJECT NUMBER: 20139484
 DRILLED DEPTH: 266.00 ft
 LOCATION: Juliette, GA

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>WELL CASING Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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>WELL CASING Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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]	298.4 126.00	13	ROTO 9.60 SONIC 10.00	Open Boring _ 6" Diameter	<p>WELL CASING Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
125		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]	288.4 136.00	14	ROTO 8.50 SONIC 10.00		
130		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]	278.4 146.00	15	ROTO 9.50 SONIC 10.00		
135		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]	268.4 156.00	16	ROTO 10.00 SONIC 10.00		
140		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]		17	ROTO 9.75 SONIC 10.00		
145		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

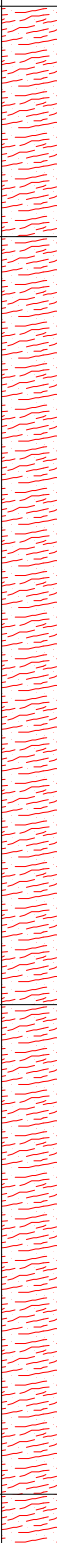
PROJECT: Plant Scherer
 PROJECT NUMBER: 20139484
 DRILLED DEPTH: 266.00 ft
 LOCATION: Juliette, GA

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

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		
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		258.4 166.00	17	ROTO SONIC	9.75 10.00	WELL CASING Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A FILTER PACK Interval: N/A Type: N/A Quantity: N/A FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A ANNULUS SEAL Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
165		166.00 - 186.00 BIOTITE/HORNBLLENDE GNEISS, fine to medium grained, fresh to slightly weathered, well foliated, poorly jointed	BR		238.4 186.00	18	ROTO SONIC	10.00 10.00	
170			BR			19	ROTO SONIC	10.00 10.00	
175			BR			20	ROTO SONIC	10.00 10.00	
180			BR			21	ROTO SONIC	9.00 10.00	
185		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		225.65 198.75				
190			BR						
195			BR						
200		Log continued on next page	BR						

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-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>WELL CASING Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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>WELL CASING Interval: 0'-69' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0'-69' Type: Cement Quantity: 1504lbs Cement, 120gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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		168.4	26	ROTO SONIC	10.00 10.00		
250	175	256.00 - 266.00 HORNBLLENDE/BIOTITE GNEISS, fresh to slightly weathered, locally contained quartz, well foliated well jointed Fracture 257'	BR		158.4	27	ROTO SONIC	7.00 10.00		
255	170									
260	165									
265	160									
270	155	Boring completed at 266.00 ft								
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>WELL CASING Interval: 0' - 29.75' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 29.75' - 39.75' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 27.75' - 39.75' Type: #1 Sand Quantity: 3.25 Bags</p> <p>FILTER PACK SEAL Interval: 24.5' - 27.5' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 24.5' Type: Cement - Bentonite Quantity: 600lbs Cement, 40lbs Bentonite, 80gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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			1	ROTO 2.20 SONIC 6.00		Grout	WELL CASING Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A FILTER PACK Interval: N/A Type: N/A Quantity: N/A FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A ANNULUS SEAL Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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		418.7 6.00	2	ROTO 5.25 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		408.7 16.00	3	ROTO 5.00 SONIC 10.00			
20	405	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		398.7 26.00	4	ROTO 9.50 SONIC 10.00			
30	395	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		395.2 29.50	5	ROTO 9.20 SONIC 10.00			
35	390	36.00 - 42.00 CL, CLAY, some very fine sand, low plasticity, dark green, wet to moist, very soft, w<PL	CL		388.7 36.00					
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>WELL CASING Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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					
50	375	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			
		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					
55	370	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		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	[Dotted Pattern]	338.7	9	ROTO 7.00 SONIC 7.00	Open Boring -	<p>WELL CASING Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>	
	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	[Dotted Pattern]	328.7	11	ROTO 7.00 SONIC 10.00			
	330	92.00: Rock becomes more gneissic 92.01: Fracture 92.85: Fracture					328.7			
	330	94.20: Fracture			328.7					
	325	95.50: Fracture 96.00 - 106.00 AMPHIBOLITE, fresh rock, medium grained, white to green, pyrite throughout	BR	[Dotted Pattern]	318.7	12	ROTO 10.00 SONIC 10.00			
	320	98.20: Fracture					318.7			
	315	106.00 - 166.00 AMPHIBOLITE, black to white to dark green, fine to medium grained, poorly jointed, weakly foliated, fresh to slightly weathered	BR	[Dotted Pattern]	318.7	13	ROTO 10.00 SONIC 10.00			
	310	106.80: Fracture					318.7			
	305	Log continued on next page			318.7	14	ROTO 9.40 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 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)	SAMPLE NO.	TYPE		
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>							WELL CASING Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A FILTER PACK Interval: N/A Type: N/A Quantity: N/A FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A ANNULUS SEAL Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic
125	300				14	ROTO 9.40 SONIC 10.00			
130	295				15	ROTO 8.50 SONIC 10.00			
135	290						Open Boring _ 6" Diameter		
140	285		BR		16	ROTO 8.80 SONIC 10.00			
145	280				17	ROTO 10.00 SONIC 10.00			
150	275				18	ROTO 10.00 SONIC 10.00			
155	270	157.00: Fracture							
160	265	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-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

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		
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	●●●●●					WELL CASING Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A FILTER PACK Interval: N/A Type: N/A Quantity: N/A FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A ANNULUS SEAL Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum DRILLING METHODS 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		248.7		19	ROTO <u>10.00</u> SONIC 10.00	
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	BR	●●●●●	248.7			Open Boring - 6" Diameter	
180	245	180.10: Fracture			20	ROTO <u>8.50</u> SONIC 10.00			
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	BR	●●●●●	238.7				
190	235	189.25: Fracture 189.50: Fracture 191.10: Fracture			21	ROTO <u>8.80</u> SONIC 10.00			
195	230	194.00: Fracture	BR	●●●●●	228.7				
200	225	196.00 - 226.00 AMPHIBOLITE/HORNBLLENDE GNEISS, fine to medium grained, fresh to slightly weathered, moderately foliated			22	ROTO <u>9.50</u> SONIC 10.00			
		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





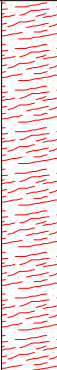
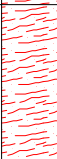
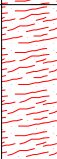
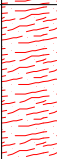
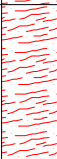
PROJECT: Plant Scherer
 PROJECT NUMBER: 20139484
 DRILLED DEPTH: 301.00 ft
 LOCATION: Juliette, GA

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

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		
200	220	196.00 - 226.00 AMPHIBOLITE/HORNBLLENDE GNEISS, fine to medium grained, fresh to slightly weathered, moderately foliated <i>(Continued)</i>	BR			22	ROTO SONIC	9.50 10.00	<p>WELL CASING Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>
205	215	215.85: Fracture	BR			23	ROTO SONIC	10.00 10.00	
210	210		BR			24	ROTO SONIC	10.00 10.00	
215	205		BR					Open Boring - 6" Diameter	
220	200	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		198.7 226.00	25	ROTO SONIC	10.00 10.00	
225	195	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		188.7 236.00	26	ROTO SONIC	9.70 10.00	
230	190		BR						
235	185		BR						
240	185	Log continued on next page	BR						

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	REC		
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			26	ROTO 9.70 SONIC 10.00		<p>WELL CASING Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS Soil Drill: Roto Sonic Rock Drill: Roto Sonic</p>	
245	180	244.40: Fracture			178.7					
250	175	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			246.00	27	ROTO 9.60 SONIC 10.00			
255	170	252.70: Fracture								
260	165	256.00: Fracture								
265	160	258.10: Fracture								
270	155	265.80: Fracture	BR			28	ROTO 10.00 SONIC 10.00	Open Boring _ 6" Diameter		
275	150	267.30: Fracture								
280	145	273.90: Fracture				29	ROTO 10.00 SONIC 10.00			
		Log continued on next page	BR		148.7 276.00	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>WELL CASING Interval: 0' - 83' Material: SDR-21 PVC Diameter: 6.25" Joint Type: Threaded</p> <p>WELL SCREEN Interval: N/A Material: N/A Diameter: N/A Slot Size: N/A End Cap: N/A</p> <p>FILTER PACK Interval: N/A Type: N/A Quantity: N/A</p> <p>FILTER PACK SEAL Interval: N/A Type: N/A Quantity: N/A</p> <p>ANNULUS SEAL Interval: 0' - 83' Type: Cement-Bentonite Quantity: 1200lbs Cement, 45lbs Bentonite, 90gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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					32	ROTO 5.00 SONIC 5.00		
300	125	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>WELL CASING Interval: 0' - 10' Material: Sch 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 10' - 20' Material: U-Pack Screen Diameter: 2" Slot Size: 0.010" End Cap: 3"</p> <p>FILTER PACK Interval: 7.2' - 20' Type: #1 Sand Quantity: 3.5 Bags</p> <p>FILTER PACK SEAL Interval: 4' - 7.2' Type: Pel Plug Quantity: 5gal Bucket</p> <p>ANNULUS SEAL Interval: 0' - 4' Type: Cement - Bentonite Quantity: 50lbs Cement, 3lbs Bentonite, 6gal Water</p> <p>WELL COMPLETION Pad: 4' x 4' Protective Casing: Aluminum</p> <p>DRILLING METHODS 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	Drinks from Surged screen
	11:25	7.21	247.3	28.3	17.22	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	Drinks from 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 (Ld) in feet 21.40

Time of Measurement 9:10

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

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity ($\mu S/cm$)	Clarity/Turbidity (NTU)	Temp ($^{\circ}C$)	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) 2200 mcf If pumped, pumping rate 1000 gpm

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-459 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	±0.5%	<10	±0.10% 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	294.0	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 μ 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 #: 100235018	Project Name/Site Name: SCS Plant Scherer		Page: <u>1</u> of <u>1</u>
Well ID # <u>P2-450</u>	Date: <u>3-20-20</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: Low-Flow		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 BTOC)	Purging Rate
<u>No Sample</u>										
<u>turbidity > 1000</u>										
<u>Will Re-develop</u>										

Stabilization Criteria: pH ± 0.1 S.U.; Conductivity ± 5%; Dissolved Oxygen ± 10% or 0.2mg/L (whichever is greater; for DO < 0.1mg/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 (5W-846 9315/9320)
<u>3</u>	<u>As above</u>		

Signature: [Handwritten Signature]

[Handwritten Signature] 5/28/2020





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/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
		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	
	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"
	15:30	6.96	243.4	21000	18.64	--	21.15	
	15:30	7.04	245.2	21000	18.48	175	24.00	
	15:30	7.10	248.4	21000	18.16	180	24.30	
	15:10	7.27	245.2	21100	18.73	185	24.30	
	15:30	7.14	246.1	21000	18.72	190	24.10	
	15:50	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	26.4	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	246.6	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	24.32	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	247.2	6.17	17.43	310	32.94	35'
	09:48	6.96	247.0	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	246.8	10.61	17.57	330	32.70	→ 20'
	10:20	7.00	240.2	139.9	17.60	335	32.68	50'
	10:27	7.00	243.1	88	17.57	340	33.10	

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

Method of purging (bailer or pump) VATEVA If pumped, pumping rate: 0.35 gpm @ 4.71 ft³/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/AR
 Date: 03-11-20
 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 (Ld) in feet: 23.45
 Time of Measurement: 08:19

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

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

	Time	pH (S.U.)	Conductivity (μ 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	20.0	15.00	425		
	13:46	7.01	240.1	13.0	15.01	415	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: 07/01/20

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 (Ld) in feet: 23.75
 Time of Measurement: 08:19

Volume of water in well, using $V=0.041 (Dr)^2 (Lw - Ld) =$ 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	17.46	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	17.48	500	29.95		
	16:17	7.05	241.7	30.8	17.52	510	29.82		
	16:37	7.06	243.0	12.22	17.52	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



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 (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
								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	89.8	17.85	775	30.40	

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

Method of purging (bailer or pump): WASTE/Air 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: 04/21/20
 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 μ 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 μ 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 (μ S/cm)	Clarity/Turbidity (NTU)	Temp ($^{\circ}$ C)	Volume (gallons)	
Before Development	1525	BEGIN DEVELOPMENT	800 ML/MIN				
To 2nd	1535	7.71	320.9	63.1	19.01	2.0	SURGED SCREEN
	1545	7.70	323.8	76.0	18.78	4.0	
	1555	7.68	306.0	61.5	19.05	6.0	SURGED SCREEN
	1605	7.53	277.3	21800	19.02	8.0	
	1615	7.50	158.4	87.0	18.87	10.0	
min. w/ Action 2000	1625	7.44	578.7	91.6	18.78	12.0	SURGED SCREEN
	1635	7.66	402.6	22000	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
Development 2nd 100	1745	7.75	363.4	64.1	20.61	20.0	
	1715					22.0	
3-20 100	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

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



GOLDER

DATE: 3-20-20

GROUNDWATER SAMPLING LOG

Project Name: RANT SCHMIDT Project /Phase No.: _____
 Well ID: P2-46D Sampler(s): Darren Cox
 Well Diameter: 2 inches Initial Depth to Water: ~~40.28~~ 40.28 feet
 Depth to Bottom: 58.33 feet Water Column Thickness: _____ feet
 Pumping Rate: 400 mL/min System Volume: _____ mL
 Well Location: _____
 Equipment: SPECTRALE, COCHISE, MOUNTAIN, LAUREL, WA-2000, HP10, RILL-02

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
1100	7.71	571.04	3.22	3.74	21.09	-48 41.30	40.28

Comments (weather conditions, color, type of sample, purge-water management, etc.):
SAMPLES STARTED AT 1245

Signature: [Signature] Date: 3-20-2020
 QA/QC Sign Off: [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 μ 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									
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	AT	640 ML/min		
	1515	7.60	236.9	79.2	14.61	9.0	SWED SCREEN
	1528	7.55	210.6	117	14.68	3.5	CUT W/CE TO 400ML/min
	1535	7.83	197.9	21000	15.64	6.5	SURGED SCREEN
	1545	7.46	202.2	21000	15.48	7.5	REMOVED 16" GROUNDWATER
DAY 1	1600	8.07	316.4	79.0	16.33	8.0	GROUNDWATER ENTRY
DAY 2 2-10-20H	1515	8.66	210.6	AT	240 ML/min		
	1525	7.11	530.6	64.1	18.72	9.0	
	1535	6.85	601.3	36.4	19.01	10.0	SWED SCREEN
	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	38.3	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	20.19	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: W2-47D 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	24.62	41.40	30.19

Comments (weather conditions, color, type of sample, purge-water management, etc.):
SIERRA Sampling 1658

Signature: [Signature] Date: 3-18-2020
 QA/QC Sign Off: [Signature] 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 μ 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 SCHNEER
 Well ID: P2-48 S
 Well Diameter: 2 inches
 Depth to Bottom: 83.75 feet
 Pumping Rate: 1000 mL/min
 Well Location: _____
 Equipment: SMARTROL, MD10, BELANGER, LAMOTTE 2020WB

Project /Phase No.: 20133494
 Sampler(s): Darren Cox KYLE COOLMAN
 Initial Depth to Water: 30.84 feet
 Water Column Thickness: 52.91 feet
 System Volume: mL

Time	pH (S.U.) ±0.1	Cond. (mS/cm) ±5%	Turb. (NTU) <10	Dis O2 (mg/L) ± 10% or 0.2	Temp. (°C) ± 0.1	ORP (millivolts)	DTW (feet)
15:46							
16:01	6.40	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 μ 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	Top screen	7.30	295	5100	16.89	3.0	
		7.37	294.7	15.4	16.42	7.0	Subsided screen
		7.36	296.0	127	16.64	10.0	
		7.40	294.6	38.6	16.64	13.0	Subsided screen that made pump
		7.41	295.1	81.0	16.64	17.0	
	Middle screen	7.41	299.3	13.7	16.75	20.0	Subsided screen
		7.42	294.3	26.2	16.76	23.0	
		7.43	293.7	7.8	16.76	26.0	
	Bottom screen	7.44	293.1	38.8	16.75	29.0	made pump, Subsided screen
		7.44	293.8	50.1	16.71	32.0	
		7.46	292.6	9.8	16.70	35.0	
		7.45	292.5	7.59	16.70	38.0	
		7.46	292.2	6.03	16.73	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: APT SCHLICK

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:

	+/- 0.1	+/- 0.5	+/- 10	+/- 10% or 0.2		+/- 10	
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 SPITZBERG 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 μ 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: PZ-495
 Casing Diameter in inches (Di): 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 $V=0.041 (Di)^2 (Lw - Ld) =$ 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

DATE: 3/21/20

GROUNDWATER SAMPLING LOG

GOLDER

Project Name: PLANT SCHERER Project /Phase No.: _____
 Well ID: P3-495 Sampler(s): ~~CHRIS~~ 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 W6

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
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 μ 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	11000	20.69	6.50
	15:40	7.43	208.3	71000	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	669	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.: 2013B494
 Well ID: 22-509 Sampler(s): DINEN-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

	<small>±0.1</small>	<small>±1.5%</small>	<small><10</small>	<small>±1.10% or 0.2</small>		<small>±1.10</small>	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
<u>10:17</u>	<u>8.04</u>	<u>SMARTROL 2.19</u>	<u>4.51</u>	<u>3.64</u>	<u>18.7</u>	<u>7.36</u>	<u>29.05</u>
<u>10:32</u>	<u>7.14</u>	<u>2.19</u>	<u>4.51</u>	<u>3.64</u>	<u>18.7</u>	<u>7.36</u>	<u>29.06</u>
		<u>2.19.9</u>					

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

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 μ 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: 02-513
 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 (LH) in feet: 34.7
 Time of Measurement: 1030

Volume of water in well, using $V=0.041 (Dr)^2 (Lw - LH) =$ 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	4.3
	1150	10.88	265.8	43	17.84	5.5
	1200	10.64	236.5	31000	17.85	7.0
	1210	10.42	217.2	21000	17.80	9.5
	1216	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 SERVICES Project /Phase No.: _____
 Well ID: PZ-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: _____

	± 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)
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 SERVICES 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 μ 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)
Before Development	0910					
	0920	12.35	1585.8	2100	19.16	2.95
	0930	11.74	3210	2095	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) EXHAUSTER 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- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)	
Before Development						
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

DATE: 3-22-2020



GOLDER

GROUNDWATER SAMPLING LOG

Project Name: PLANT SCHERER Project /Phase No.: 20130494
 Well ID: DZ-52 Sampler(s): Daren Cox-Kyle Cozma
 Well Diameter: 2" inches Initial Depth to Water: 30.70 feet
 Depth to Bottom: 79.65 feet Water Column Thickness: 48.95 feet
 Pumping Rate: 40000 mL/min System Volume: - mL
 Well Location: 1500
 Equipment: SMARTROL MP10, RECLAIMER, LAPORTE 2020WE

	± 0.1	$\pm 5\%$	<10	$\pm 10\%$ or 0.2		± 10	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
13:21	BEGIN SMARTROL READING						
13:36	6.14	386.30	3.71	0.24	18.66	59.30	65.55

Comments (weather conditions, color, type of sample, purge-water management, etc.):
4x4 CONCRETE PAD, 4 - PAINTED BRICKER POSTS, PROTECTIVE
COVERING INCLUDING LOCK, IDENTIFICATION PLACARD ALL
INSTALLED. NEEDS SIGN AROUND 2" PVC INSIDE THE COVER
ALSO DID NOT SEE A FILLED VEEP HOLE.

Signature: [Signature] Date: 3-22-2020
 QA/QC Sign Off: [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 μ 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)
Before Development					
<u>0850 - STARTED PURGING</u>					
<u>0900</u>	<u>7.17</u>	<u>972.8</u>	<u>4047</u>	<u>18.37</u>	<u>3.6</u> *SURGED SCREEN
<u>0910</u>	<u>6.14</u>	<u>197.2</u>	<u>851</u>	<u>18.26</u>	<u>5.2</u>
<u>0920</u>	<u>5.85</u>	<u>141.1</u>	<u>123</u>	<u>18.26</u>	<u>7.8</u>
<u>0930</u>	<u>5.65</u>	<u>107.2</u>	<u>64</u>	<u>18.26</u>	<u>10.4</u> *SURGED SCREEN
<u>0940</u>	<u>5.58</u>	<u>87.2</u>	<u>28</u>	<u>18.27</u>	<u>13</u>
<u>0950</u>	<u>5.55</u>	<u>84.12</u>	<u>2103</u>	<u>18.35</u>	<u>15.6</u> *SURGED SCREEN
<u>1000</u>	<u>5.54</u>	<u>77.1</u>	<u>54</u>	<u>18.35</u>	<u>18.2</u>
<u>1010</u>	<u>5.52</u>	<u>78.1</u>	<u>43</u>	<u>18.70</u>	<u>20.8</u>
<u>1020</u>	<u>5.58</u>	<u>83.5</u>	<u>1062</u>	<u>18.12</u>	<u>23.2</u> *SURGED SCREEN
<u>1030</u>	<u>5.40</u>	<u>82.6</u>	<u>2008</u>	<u>17.15</u>	<u>25.8</u>
<u>1040</u>	<u>5.52</u>	<u>79.3</u>	<u>130</u>	<u>19.36</u>	<u>28.4</u>
<u>1050</u>	<u>5.47</u>	<u>88.2</u>	<u>98</u>	<u>17.43</u>	<u>31.0</u>
<u>1100</u>	<u>5.46</u>	<u>66.5</u>	<u>685</u>	<u>17.86</u>	<u>33.6</u> *SURGED SCREEN
<u>1110</u>	<u>5.49</u>	<u>20.4</u>	<u>266</u>	<u>19.47</u>	<u>36.2</u>
<u>1120</u>	<u>5.45</u>	<u>67.5</u>	<u>33.2</u>	<u>19.30</u>	<u>38.8</u>
<u>1130</u>	<u>5.47</u>	<u>65.9</u>	<u>21.17</u>	<u>19.15</u>	<u>41.4</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: 3/22/20
 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	62.3 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: [Signature] Date: 3/22/20
 PM's Signature: [Signature] Date: 5/28/2020



GOLDER

DATE: 3/22/20

GROUNDWATER SAMPLING LOG

Project Name: PLANT SCHERER Project /Phase No.: 20189484
 Well ID: P3-53 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, RELIANCE, 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	5360	4.75	1.31	18.75	52.00	28.13

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

Signature: [Signature] Date: 3/22/2020
 QA/QC Sign Off: [Signature] 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 μ 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)	
Before Development						
<u>910 - STARTED PURGING</u>						
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: [Signature]
 PM's Signature: [Signature]

Date: 3/23/20
 Date: 5/28/2020



GOLDER

DATE: 3/23/20

GROUNDWATER SAMPLING LOG

Project Name: PLANT SCHERER Project /Phase No.: _____

Well ID: P2-54 Sampler(s): Darren A. HOWARD

Well Diameter: 2 inches Initial Depth to Water: 27.84 feet

Depth to Bottom: 49.41 feet Water Column Thickness: 21.57 feet

Pumping Rate: 1200 mL/min System Volume: _____ mL

Well Location: _____

Equipment: _____

Time	± 0.1	$\pm 5\%$	< 10	$\pm 10\%$ or 0.2	Temp. ($^{\circ}\text{C}$)	± 10	DTW (feet)
	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)		ORP (millivolts)	
1210	5.96	107.92	1.50	3.08	18.39	45.89	38.72

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

Signature: [Signature] Date: 3/23/20

QA/QC Sign Off: [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 μ 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									
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- tivity (µS/cm)	Clarity/ Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development					
0935	6.99	151.8	2100	19.11	25.5
1005	6.95	148.0	2000	19.97	26.5
1015	6.96	148.0	89.9	19.97	12.0 5000 30000
1025	6.88	145.9	2100	19.11	19.5
1035	6.86	138.1	2100	19.06	19.5
1045	6.85	133.7	138	19.01	20.25 5000 Screen
1055	6.85	132.9	2000	19.10	23.0
1105	6.83	131.9	691	19.10	25.35
1115	6.47	130.6	109.0	19.06	28.50
1125	6.48	130.5	30.3	19.13	31.35
1135	6.48	128.6	26.7	19.06	32.00
1145	6.46	128.9	14.8	19.06	36.95
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	47.5

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

Method of purging (bailer or pump): TELLURIDE 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

MONITORING WELL DEVELOPMENT DATA SHEET



Project: Plant Scherer
 Date: 3-23-2020
 Casing Type: PVC
 Well/Boring Number: 22-05
 Casing Diameter in inches (Dr): 2 in
 Screened Interval: 20.60 - 38.60
 Riser Stickup: 3.5', PROTECTIVE CASING NOT INSTALLED
 Total Well Depth (Lw) in feet: 38.60
 Depth to Water (Ll) in feet: 20.05
 Time of Measurement: 09:18

Volume of water in well, using $V=0.041 (Dr)^2 (Lw - Ll) =$ 3.0 Gallons

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conductivity (µS/cm)	Clarity/Turbidity (NTU)	Temp (°C)	Volume (gallons)
Before Development	<u>6.42</u>	<u>128.0</u>	<u>4.97</u>	<u>19.0</u>	<u>50.5</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 MB/Min
 Well Purged Dry NO Continuous Recharge YES
 Notes concerning condition of well, odors, color, etc: —
A total of 17 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 UNDER DEVELOPMENT JUST THE 2" PVC STICK UP WITH A LOCKING CAP INSTALLED.



GOLDER

DATE: 3-23-2020

GROUNDWATER SAMPLING LOG

Project Name: PLANT SHEDDER Project /Phase No.: 20138494
 Well ID: PZ-55 Sampler(s): Dave Cox, Kyle Lockman
 Well Diameter: 2 inches Initial Depth to Water: 20.05 feet
 Depth to Bottom: 38.6 feet Water Column Thickness: 18.55 feet
 Pumping Rate: 1000 mL/min System Volume: — mL
 Well Location: —
 Equipment: SMARTROL, MP10, RELIANCE, LAMOTTE ZORONF

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (°C)	ORP (millivolts)	DTW (feet)
12:36	8.50	SMARTROL READINGS					
12:51	6.43	124.90	3.15	2.83	19.05	54.30	23.6

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

Signature: [Signature] Date: 3-23-2020
 QA/QC Sign Off: [Signature] Date: 5/28/2020

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 μ 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				
	3-24-20	08:37	6.47	270.6	21000	18.00
	3-24-20	15:40				
		15:43				
		15:48	6.56	242.6	21000	18.89

(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 [Signature] Date: 3-23-2020
 PM's Signature [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 (μ S/cm)	Clarity/ Turbidity (NTU)	Temp ($^{\circ}$ C)	Volume (gallons)
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Before Development 1

Time	pH (S.U.)	Conductivity (μ S/cm)	Clarity/ Turbidity (NTU)	Temp ($^{\circ}$ C)	Volume (gallons)	DTW
820						
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	290.4	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 / NUMBER: Well 4474
 WELL ID NO: 2
 DEVELOPED BY: JKM
 STARTED DATE: 18.08.1991
 NO. BOREHOLE DEVS: 20.08.1991
 WELL DEPTH BOREHOLE DEVS: 48.20
 DEPTH TO WATER TABLE (m): 11.41
 BOREHOLE LENGTH: 12

WELL NO: 92-56
 WELL ID NO: 2
 DATE OF INSTALL: _____
 COMPLETED DATE: 4.8.2019
 NO. ATTEMPTS: 4.8.1991/1991
 WELL DEPTH AT TOP LEVEL: 48.18
 DEPTH TO WATER TABLE: well when 1.5.92 =
 BOREHOLE DEPTH (m): _____

2019.560

DATE/TIME	WELL DEPTH (m)	FLOWING DATE (TIME)	PT#	FIELD PARAMETERS								REMARKS
				SP (m)	TO COR (m)	TEMP (°C)	PRESS (kPa)	WELL (m)	WELL (m)	WELL (m)	WELL (m)	
1997	0		767	6.42	20.8	20.8	269	140	4.30	43.0	1997	
11.55	0			6.47	20.2	20.8	69.7	140	5.10	11.24		
12.07	4			6.78	20.0	20.15	71.7	140	5.35	12.1		
12.10	4.5			6.54	20.2	20.25	70.2	140	5.70	10.12	ATFB 5m	
<p>4-9 ATTEMPT 32.6 Low Flow</p> <p>4.4.1991 0.92 - Begin Low flow of 300ml/min 9.1 - Pul. when 1st of pump. pressure returned to 300ml/min 0.98 - run down to 300ml/min 9.2 - 0.506 Low flow</p>												

DEVELOPMENT METHOD: _____
 NOTES: Low flow data in manual 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 μ 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
2.6 gal @ 1000 mL/MIN
2 @ 800 mL/MIN
1 @ 400 mL/MIN

FIELD MEASUREMENT OF PHYSICAL PARAMETERS

Time	pH (S.U.)	Conductivity (µS/cm)	Clarity (NTU)	Temp (°C)	Volume (gallons)
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Before Development

Time	pH	Conductivity	Clarity	Temp	Volume	Notes
10:00	12.02	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
						MOVED PUMP TO 1000 mL/MIN
10:50	12.0	5738	20.97	18.86	11.4	DTW = 47.2
10:50						STOPPED PUMP
11:16						DTW = 50.5
11:16						STARTED SCREEN
11:16						DTW = 44.36
12:27						STARTED PUMPING @ 400 mL/MIN
12:40	11.36	3285.1	132.3	21.37	12.6	DTW = 42.0
12:50	12.24	2709.0	11.1	23.36	13.0	DTW = 43.6
13:00	12.25	2197.8	22.99	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
	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	*SURGED SCREEN*					
	0940	*START PUMPING*					
PUMPING @ 1000ml/min	0950	10.76	398.3	45.0	19.52	25.2	DTW = 36.23
	1000	10.86	501.9	32.1	18.58	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 WELL USE NO: _____

DEVELOPER: KCC DATE OF INITIAL COMPLETION: 7-15-80

STARTED DATE: _____ COMPLETED DATE: 4/12/1991

WELL DEPTH (FEET): 3151 944 411 WELL DEPTH BY TEST: 56.8'

STANDARD WATER COLUMN (FT): _____ STANDARD WELL VOLUME: _____

WELL ID (IN): 46.2-18.9 (10') Casing Material: _____

Top of log
up
from

DATE/TIME	WELL DEPTH (FEET)	FLOWING HEAD (FEET)	STRAIN RATE (GPM)	FIELD PARAMETERS										REMARKS
				API	API	API	API	API	API	API	API	API	API	
4/12/80	3151	2751	10.59	53.5	2444	11	200	6.7	73.0	Flow @ 25'				
12/10	2865	2801	49.1	100	415.2	2106	310	200	8.4	100				
12/15	2865	2801	49.1											
12/17	183	0.5												
12/17	5	0.35	4.99	9.09	4.79	20.0	16.7	200	8.69	112.3	Flow			
12/18	100	100	9.95	98.7	210	109.1	200	8.59	110.0					
12/10														
12/10	0.7	0.2	41.0	910	29.6	2101	104	200	8.48	111.0	Flow			
12/10	2.5	400	52.0	9.32	49.0	2011	619	200	8.60	107.1	Flow			
12/11														
12/11			41.6											
12/11			48.0											
12/11			41.73											
12/11	9.6	0.4	40.2	911	42.6	2103	700	200	7.7	113.6	Flow			
12/11	10	0.4	52.74											
12/11			49.0											
12/11			44.1	4.2	40.0	20.0	10.0	200	7.09	112.1	Flow			
12/11	10.5	0.2	70.2											
12/11			60.51											
12/11		0.2	41.1	9.15	20.1	210	110	200	8.17	110.1	Flow			
12/11	14.1	0.0	70.0											
12/11	0	-	27.0	0.28	4.20	20.0	10.0	200	8.23	76.1	Flow			
12/11	4	-		4.63	20.4	20.0	4.77	10.0	2.80	66.1	Flow			
12/11	9.7	-		4.50	4.77	20.0	10.0	200	7.88	64.3	Flow			
12/11			11.4		8.0									
12/10			20.0	2.00	4.00	20.0	2.5	200	2.01	77.7	Flow			
12/11			41.0	2.31	4.20	20.0	2.19	10.0	1.8	110	Flow			
12/11														

5 gal tested
Flow of water from
flow
Add 2nd 1/2" tubing into
well due to
flow
Flow due to
compression under the
water & tubing
DRY, well

4/8

4/9

was 2830'
was 2981'
was 21.4' flow

(Control stand 11.0' reading)
stand 11.0' reading

DEVELOPMENT METHOD: Reamer pump, surge/over/rotate/rotate

NOTES:
 ~ 2.5' per min rotate (47.14-49.14)
 1.5' per min (47.14-48.74)
 Final flow: 41.74
 4/9/20
 29.5

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 μ 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: PZ-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)
1250 - STARTED RIRLING					
1300	7.33	175.9	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 *					
1410	7.43	167.8	1755	18.52	10.7
1420	7.45	2.9	1242	18.37	13
* STOPPED PUMPING *					
1500	DTW = 43.21				
1610	DTW = 42.0 * STARTED PUMP + SURGED SCREEN *				
1620	7.37	15.0	1456	18.44	16.0
1623 * WELL RIRLED DRY *					
1700 - DTW = 43.44					

DTW = 46.0
 DTW = 42.13
 DTW = 46.8

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	<u>0830 - STARTED PUMPING</u>						DTW = 39.81
	<u>0840</u>	<u>7.92</u>	<u>181.8</u>	<u>17.58</u>	<u>18.62</u>	<u>18.2</u>	DTW = 47.01
	<u>0850</u>	<u>7.03</u>	<u>165.3</u>	<u>—</u>	<u>18.48</u>	<u>20.8</u>	
	<u>* PUMPED DRY @ 852 *</u>						
8/25/20	<u>1505 * STARTED PURGING (+ GURLED SCREEN)</u>						
	<u>1515</u>	<u>9.27</u>	<u>173.9</u>	<u>18.9</u>	<u>20.53</u>	<u>22.8</u>	DTW = 46.31
	<u>1525</u>	<u>7.91</u>	<u>174.0</u>	<u>16.9</u>	<u>19.10</u>	<u>24.8</u>	DTW = 47.17
	<u>* PUMPED DRY @ 1528</u>						
	<u>* SURGED SCREEN</u>						
8/25/20	<u>1100 - STARTED PUMPING</u>						DTW = 39.81
	<u>1110</u>	<u>7.79</u>	<u>176.8</u>	<u>58.0</u>	<u>18.9</u>	<u>27.2</u>	DTW = 42.09
	<u>1120</u>	<u>7.02</u>	<u>180.5</u>	<u>23.8</u>	<u>18.68</u>	<u>29.8</u>	DTW = 47.67
	<u>1128</u>	<u>WELL RAN DRY</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 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
 STARTED DATE: 4/6 14:35
 WELL DEPTH BEING DEVEL: 317
 WELL DEPTH AFTER DEVEL: 47.75
 STANDING WATER COLUMN (FT):
 SCREEN LENGTH: 10' (30-40)

WELL ID: P2-58
 WELL DEPTH: 317
 DATE OF RECORD: 4/6/2020
 COMPLETED DEPTH:
 WELL AFTER DEVEL:
 WELL DEPTH AFTER DEVEL:
 STANDING WELL HEIGHT:
 CHILLED WATER LOG:

4/6/20
 11:05-11:06
 H2E does not get supplies
 from warehouse 24
 8:50-12:00
 Thinking about procedure

* Depth from
 top of casing

DATE/TIME	WELL HEADS	FLOWING HEAD	DIP	WELL PARAMETERS								REMARKS
				SP	SP	TEMP	TEMP	TEMP	TEMP	TEMP	TEMP	
4/6 10:55	0	0.5	40.15		0.24	25.5	48.1	clear	10.8	123.2	47	Top of Pump
12:40	0.5	0.5	46.15	2.15	0.20	25.6	34.8	clear	12.7	92.7	47	
12:48	0	0.5	47.0				DRY				47	
13:05	4.25	0.25	48.3	7.02	0.20	26.7	23.9	clear	11.9	90.5	47	
13:20			47.0				DRY				47	
13:40	1.5	0.25	48.7	7.42	0.19	25.4	22.9	clear	8.2	76.5	47	
13:46			47.0				DRY				47	
14:00			45.45								47	
14:15	1.0	0.2	45.2	7.27	0.18	25.9	21.5	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	22.1	clear	7.16	72.9	47	
14:50			47				DRY				47	
15:10	1.0	0.2	45.8	7.42	0.17	25.4	21.3	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	22.7	clear	7.1	78.0	47	
15:39			47				DRY				47	
15:50	1.0	0.2	46.1	7.53	0.17	25.0	21.4	clear	8.67	78.2	47	
15:55			47				DRY				47	
16:10	1.0	0.2	46.4	7.45	0.17	26.2	21.1	clear	9.7	81.6	47	
16:15			47				DRY				47	
16:30	1.0	0.2	46.3	7.56	0.18	26.7	21.8	clear	7.57	78.7	47	
16:35			47				DRY				47	
17:00	TOTAL VOLUME RECORDED (GAL)											

DEVELOPMENT METHOD: 4/6 End of Day - Team pulled off P2-58 & 57
 NOTES: to finish development via another
Date / with alternate method

5/28/2020

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	1.1			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 μ 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

DEVELOPER BY: RFM DATE OF INITIAL: 7-22-04

STARTED LEVEL: 47.80 / 1090 COMPLETED LEVEL: 47.20 / 1504

WELL DEPTH LEVEL: 4.10 / 404 / 405 DE AFTER LEVEL: 3.07 / 104 / 1509

WELL DEPTH BEFORE LEVEL: 70.28 WELL DEPTH AFTER LEVEL: 30.28

STANDING WATER COLUMN (FT): 67.96 STANDING WELL COLUMN: _____

WATER COLUMN: 15' (67.28 - 72.28) DRILLING WATER LOG: _____

60 (T)
66 (M)
71.7 (B)

DATE/TIME	WELL DEPTH (FEET)	PLUGGED DATE	TIME	FIELD PARAMETERS										REMARKS	
				WT (PSI)	SG (SG)	TEMP (°F)	THICK (IN)	SPR (GPM)	SPR (GPM)	SPR (GPM)	SPR (GPM)	SPR (GPM)	SPR (GPM)		
8-7-1090	0		425	672	2010	2175	184	cm	1.81	253					PROD-712
1047	0.5	0.1					7100								
1100	10	0.1	2100	7.30	2072	2100	109	0.4	1.06	201					
1120	27.5	0.1	2070	7.01	2079	2084	08	0.4	0.92	20.7					
1125	35	0.1	2003	7.12	2099	2175	07	0.4	2.05	21.6					
1210	42.5	0.1	1699	7.07	2073	2054	627	0.4	2.14	27.9					PROD, surface lubricating returned
1230	53	0.1	2115	7.08	2083	2016	053	0.4	3.08	20.0					
1250	65	0.1	2010	7.10	2081	2020	205	0.4	2.00	17.6					more plug up
1315	77.5	0.1	2070	7.10	2085	2080	1097	0.4	2.01	22.7					PROD 66
1317															
1328		0.1	2110	7.01	2012	2119	253	0.4	4.27	21.4					PROD, surface lubricating PROD 60 returned
1348	82.5	0.1	2010	7.18	2082	2090	080	0.4	2.05	21.8					
1400	95	0.1	2010	7.38	2008	2100	774	0.4	2.00	20.0					
1421		0.1	2010												Allow conditions to test hole before lean flow PROD 65 Start lean flow
SEE SMARTROLL LOG FOR FINAL READINGS															
<i>[Handwritten signature]</i>															
1504															PROD lean flow

PROD 20.05L
data LF

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 μ 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 to 26.65
 Riser Stickup: 3', ONLY RISER STICK UP INSTALLED, NO PROTECTIVE CASING
 Total Well Depth (Lw) in feet: 26.65
 Depth to Water (Lf) in feet: 3.23
 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 ($^{\circ}C$)	Volume (gallons)
Before Development	<u>6.16</u>	<u>148.3</u>	<u>3.92</u>	<u>18.35</u>	<u>72.0</u>

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

Method of purging (bailer or pump) DECLARED 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 COLMAN
 Well Diameter: 2 inches Initial Depth to Water: 5.23 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, MPID, DECLAMER, LAETTE 2020WE

	±0.1	±0.5%	<10	±10% or 0.2		±10	
Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Dis O2 (mg/L)	Temp. (oC)	ORP (millivolts)	DTW (feet)
14:32	STARTED SMARTROL RECORDING						
14:48	6.17	149.80	4.90	1.57	18.46	24.00	4.50

RSC

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 μ 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 bgs 4/8 12:00

W.L. AFTER LEVEL: _____

WELL DEPTH BEFORE LEVEL: 1.1 bgs

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)
				PH	IN TEMP (°C)	TEMP (°C)	TEMP (°F)	CLAR	COG	COG (ppm)	COG (ppm)			
4/8 12:45	5.0	0.33	1.8	9.68	0.24	26.58	2000	brn	3.21	104.6			Top of Pump	
12:50	7.5	0.5	25.1	9.50	0.24	24.51	2000	brn	1.83	102.4			97.5	
13:05	10	0.67	24.9	9.72	0.22	25.21	2000	brn	2.51	112.2			97.5	
13:20	7.5	0.5	27.3	9.29	0.25	23.86	2000	brn	2.91	112.6			97.5	
13:35	3.5	0.23	25.2	9.15	0.23	24.81	103	clear	2.20	104.4			97.5	
13:50	1.5	0.10	26.5	8.62	0.24	24.04	79	clear	1.53	105.6			97.5	
14:05			26.7											
14:15			24.3											
14:25			27.0											
14:35			21.4											
14:45	7.6	0.5	28.0	8.32	0.25	26.32	629	cloudy	2.42	114.7			97.5	
15:00	7.5	0.5	28.5	8.00	0.26	26.21	2000	brn	2.89	117.8			97.5	
15:15	5.0	0.33	22.4	8.18	0.26	25.20	66.8	clear	2.63	127.3			97.5	
15:30	-	-	26.18	8.2	0.27	22.45	36.3	clear	2.14	131.0			97.5	
15:40			21.6	8.00	0.26	25.25	2000	brn	2.41	117.6			97.5	
16:25			27.0											
8:00			3.1	6.71	0.27	17.63	104	clear	3.83	107.3			92.5	
9:10	5.0	0.34	25.4	8.21	0.34	17.30	71	brn	4.09	107.5			92.5	
9:25	2.5	0.17	27.4	8.56	0.34	25.21	772	brn	4.25	105.7			92.5	
9:40	4.0	0.27	29.3	8.49	0.30	20.51	779	brn	4.01	120.5			92.5	
9:55	5.0	0.33	20.6	7.58	0.30	20.30	513	cloudy	3.48	122.0			92.5	
10:10	5.0	0.33	21.0	8.22	0.43	20.55	77	clear	3.78	121.5			92.5	
10:25	5.0	0.33	28.9	8.53	0.35	20.60	112	clear	4.58	111.6			92.5	
10:40	5.0	0.33	27.6	7.24	0.30	20.78	71.7	clear	3.11	104.1			92.5	
10:55	4.0	0.27	26.5	7.18	0.31	21.14	72.4	clear	2.66	106.4			92.5	
11:10	4.0	0.27	26.5	8.24	0.35	20.57	12.6	clear	5.27	109.6			92.5	
11:25	5.0	0.33	28.5	8.41	0.45	20.55	2000	brn	3.17	116.7			87.5	
11:40	-	-	26.5	7.51	0.37	20.05	79.3	clear	2.20	114.3			87.5	
11:50			26.0											
12:00			21.2											
12:05	2.5	0.17	26.5	7.33	0.36	19.27	2000	brn	3.09	115.6			87.5	
12:20	5.0	0.33	20.5	7.31	0.33	19.29	187	clear	3.26	111.9			87.5	
12:35														
	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

10.0

(bgs)

4/7

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 μ 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 (NUMBER) 20139484 WELL ID: PZ-605

WELL SIZE: 2 WELL DEPTH: 20.5

DEVELOPED BY: JMS DATE OF INSTALL: 5/15/2020

STARTED DATE: 5/11/2020 COMPLETED DATE: 5/15/2020

WELL DEPTH (TO TOP OF CASING): 7.7 (to 10.50) (to 10.50)

WELL DEPTH (TO BOTTOM OF WELL): 20.5

STANDING WATER COLUMN (FT.): 10.0 (10' - 20' log)

STANDING WELL COLUMN: 20.5

DRILLING WATER LOSS:

* Casing & Pad not on well yet. Depths are total ft. logs

DTW
 7.7
 ↓
 6.5
 ↓
 5.3
 ↓
 4.1
 ↓
 3.2
 ↓
 2.3
 ↓
 1.4
 ↓
 0.5

TIME	DEPTH (FEET)	TEMP (°F)	TEMP (°C)	PH	COND (µmhos/cm)	TDS (mg/L)	CLARITY (NTU)	ODOR	TASTE	COLOR (PCU)	SP. GRAV. (SG)	REMARKS
10:10	15	16	9.9	6.70	0.07	28.50	2.00	clear	5.07	87.5	19.7	
10:25	11	0.7	9.9	6.75	0.07	28.50	2.00	clear	5.06	88.7	19.7	
10:40	7.5	0.5	8.7	6.69	0.06	28.00	2.00	clear	5.06	88.7	19.7	
10:55	5.0	0.36	8.7	6.72	0.07	28.00	2.00	clear	5.06	88.7	20.7	
11:10	11	0.7	8.1	6.52	0.07	27.00	2.00	clear	5.07	89.1	20.7	
11:25	7.5	0.5	8.7	6.76	0.06	27.75	2.00	clear	5.07	88.6	20.7	
11:40	7.5	0.5	8.7	6.76	0.07	27.75	2.00	clear	5.08	88.4	20.7	
11:55	7.5	0.5	8.7	6.74	0.07	28.25	2.00	clear	5.10	87.1	20.7	
12:10	7.5	0.5	8.7	6.76	0.06	27.75	2.00	clear	5.08	78.9	20.7	
12:25	7.5	0.5	8.7	6.76	0.06	27.75	2.00	clear	5.08	78.4	20.7	
12:40	7.5	0.5	8.7	6.53	0.06	27.60	2.00	clear	5.03	98.0	20.7	
12:55	7.5	0.5	8.7	6.29	0.06	27.50	2.00	clear	5.00	96.8	20.7	
13:10	7.5	0.5	8.7	6.19	0.06	27.75	2.00	clear	5.00	100.0	20.7	
13:25	7.5	0.5	8.7	6.08	0.06	27.75	2.00	clear	5.05	102.6	20.7	
13:40	7.5	0.5	8.7	6.05	0.06	27.10	2.00	clear	4.98	106.1	20.7	
13:55	7.5	0.5	8.7	6.06	0.06	27.00	2.00	clear	5.01	100.5	20.7	
14:10	7.5	0.5	8.7	6.06	0.06	27.57	2.00	clear	5.04	119.0	20.7	
14:25	7.5	0.5	8.7	6.11	0.06	27.77	2.00	clear	5.07	112.6	20.7	
14:40	7.5	0.5	8.7	6.09	0.06	27.82	2.00	clear	5.01	115.4	20.7	
14:55	7.5	0.5	8.7	6.08	0.06	27.00	2.00	clear	5.02	122.2	20.7	
15:10	7.5	0.5	8.7	6.43	0.06	27.00	2.00	clear	5.15	124.1	20.7	
15:25	7.5	0.5	7.0	6.20	0.05	27.57	1.95	brwn	5.14	144.8	16.5	
15:40	7.5	0.5	7.7	6.22	0.03	27.25	1.52	clear	5.17	128.6	16.5	
15:55	7.5	0.5	7.7	6.0	0.05	27.40	2.09	clear	5.64	125.6	16.5	
16:10	7.5	0.5	7.7	6.30	0.05	27.10	2.24	clear	5.91	155.7	16.5	
16:25	7.5	0.5	8.7	6.37	0.05	27.45	2.17	brwn	5.37	161.1	16.5	
16:40	11.0	0.7	6.3	7.14	0.08	19.15	1.61	brwn	7.28	162.1	16.5	
7:05	11.0	0.7	7.9	6.57	0.06	19.15	1.77	clear	6.13	166.9	16.5	
7:20	11.0	0.7	8.0	6.45	0.06	17.32	1.69	clear	6.02	166.0	16.5	
9:35			8.9	6.91	0.06	17.17	1.64	clear	6.32	167.5	16.5	
Low = Flow												
240												

Corrected (first logs)

17.5
 ↓
 20.5 18.5

19.3
 ↓
 16.5

DEVELOPMENT METHOD: Ending low flow DTW: 4.4

5/28/2020

Quality Assurance

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 μ 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 DIA IN: 2"
 DEVELOPED BY: M. Boatman
 STARTED DEVEL: 11/2/2019
 WELL DEPTH BEFORE DEVEL: 12.8'
 WELL DEPTH AFTER DEVEL: 49.8'
 STANDING WATER COLLARS (FT): 5.4'
 SCREEN LENGTH: 10'

WELL ID: PZ-61
 WELL DIA IN: 2"
 DATE OF INSTALL: 4/17/2020
 COMPLETED DEVEL: 11/16/2019
 IN AFTER DEVEL: 10/30/2019
 WELL DEPTH AFTER DEVEL: 49.8'
 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	PO2 (mg/L)	ORP (mV)	
11:00	250 gal		12.8	6.59	328.2	71.0	12.6	Cloudy	5.10	-78.8	
11:20	5.0		16.0	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	37.4	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 μ 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 10:56
 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 14:29
 DATE TIME
 WL AFTER DEVEL. 44.75 04-16 14:28
 WL DATE TIME
 WELL DEPTH. AFTER DEVEL. 45.55
 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)									

DEVELOPMENT METHOD: RECLAIMER + SURGING

NOTES:



5/28/2020

PURGING AND SAMPLING FORM

20139484

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: 1 of 1
Well ID #: P2-62	Date: 04.16.20	Water Level (ft): 41.0	Time (WL): 14:00
Physical Condition of Well: GOOD		Weather: SUNNY, HIGH 70°F	
Well Diameter (in): 2	Well Depth (ft): 55.55	Water Column (ft): 14.55	Well Volume (gal): 2.37
Start Purge: 14:03	End Purge: 1429	Top of Pump (ft): ~50	
Evacuation Method: Low-Flow		Volume Removed (L): 12.5	
Evacuation Equipment: RECLAIMER		Purging Personnel: JUDE WAGVESTACK	
SmarTroll serial #: 646770		Lamotte serial #: 2279-2612	

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
1429	CLR	NONE	6.45	116.83	5.71	18.33	4.20	3.15	44.75	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 ≥ 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)
	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 6020/7470)
	500 mL plastic	--	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

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 μ 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
 WELL AFTER DEVL: 26.15 / 15:34
 WELL DEPTH AFTER DEVL: 42.72
 STANDING WELL VOLUME: 4.27 m³
 DRILLING WATER LOSS: 0 m³

DATE/TIME	VOLUME REMOVED (m ³)	PUMPING RATE (m ³ /HR)	DTH (m)	FIELD PARAMETERS								PUMP STATUS / REMARKS
				IN (m)	TO SURF (m)	TEMP (°C)	TURBID (NTU)	CLAY (ppm)	SS (mg/L)	OPR (m)		
05/22/15:30	5		27.03	6.37	0.24	19.04	200	200	1.55	26.7	1	circulate
12:25	10		27.35	6.38	0.24	19.10	200	200	1.51	26.2	1	
12:36	15	0.5	26.18	6.31	0.21	19.00	199	200	2.76	26.7	1	circulate
12:43	20		26.02	6.24	0.20	19.02	207	200	1.82	26.1	1	circulate
12:53	30		26.05	6.19	0.20	19.04	200	200	2.06	24.8	1	circulate
13:03	35		26.12	6.17	0.20	19.06	205	200	2.36	23.9	1	circulate → 4'
13:32	45		26.25	6.37	0.20	19.00	207	200	2.45	24.7	1	circulate + 2.00 m ³
13:43	50		26.13	6.26	0.21	19.00	207	200	2.34	26.1	1	circulate
14:03	60		26.05	6.10	0.14	19.00	207	200	6.37	22.7	1	circulate → 8'
14:13	65		26.05	6.37	0.14	18.99	207	200	7.46	22.0	1	circulate
14:21	70		26.02	6.40	0.23	18.97	211	200	7.79	20.8	1	circulate
14:43	80		26.30	6.36	0.20	18.97	22.5	200	7.07	22.0	1	circulate → 1'
14:53	85		27.00	6.15	0.19	18.98	20.2	200	1.24	25.0	1	circulate → 5'
15:02	90		27.10	6.18	0.22	18.87	32.1	200	2.62	21.3	1	circulate → 10'

circulate + 2.00 m³
 → 8'
 → 1'
 → 5'

90 - TOTAL VOLUME REMOVED (m³)

DEVELOPMENT METHOD: Refracture & Surfactant
 NOTES: Refracture @ 1/16"

[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): 15:14
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	500-750

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 ≥ 2xL purge water, water level ± 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 9015-9320)

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 μ 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: 20137487
 WELL ID: 2
 DEVELOPER: J. W. ...
 STARTED DATE: 07-15-12
 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: 07-15-12
 COMPLETED DATE: 07-18-12
 RL AFTER LEVEL: 51.20
 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 (lb)	To Cond (inches)	TEMP (°F)	Surf. (PSI)	Case (PSI)	ROD (inches)	ROP (inches)						
04:15/14:02	5	0.23	52.85	—	—	—	7800	—	—	—	—	—	—	—	—	—
14:18	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	28.0	171	mud	8.00	65.5						string
14:28	20		56.10	7.45	0.33	20.88	11	mud	10.10	49.1						string
14:33	25		56.15	7.46	0.37	19.27	99	mud	10.10	40.6						string
14:37	30		57.15	7.48	0.33	17.26	107	mud	9.77	52.3						
14:40	—	0.25	50.15	—	—	—	—	—	—	—	—	—	—	—	—	—
15:03	—	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	42.75' down
15:05	35	0.23	50.10	7.16	0.37	20.31	123	mud	10.07	60.1						string
15:11	40		57.15	7.20	0.31	20.16	127	mud	9.72	57.1						
15:26	50		56.70	7.11	0.28	20.93	126	air	9.57	53.8						string
15:35	60		57.20	7.48	0.39	20.19	24.7	air	9.37	57.9						→ 3'
15:40	70		57.10	7.48	0.39	20.16	34	mud	9.77	49.6						string
15:58	80		58.20	7.52	0.27	20.12	72	mud	10.26	59.7						
16:11	90		57.30	7.57	0.21	20.27	20.9	air	9.42	52.8						string
16:24	100		57.20	7.52	0.24	20.92	48.0	mud	9.68	69.9						string
16:31	105		57.20	7.48	0.34	20.10	59.2	chd.	9.47	65.1						→ 6'
16:38	110		57.10	7.49	0.34	19.28	100.3	mud	10.07	59.5						string
16:45	115		57.20	7.00	0.10	19.33	49	chd.	9.12	52.9						
16:53	120		52.60	7.98	0.17	20.62	48.2	chd.	7.12	50.0						→ 9'
17:02	125		57.20	7.10	0.37	21.18	62	mud	10.97	57.3						string
17:11	130		57.40	7.52	0.33	21.27	25.1	mud	10.23	67.7						
17:29	140		57.10	7.56	0.33	20.79	20.6	chd.	9.97	61.3						→ 6"
17:34	145		57.8	7.54	0.33	20.24	48.9	chd.	10.15	62.2						string
17:39	150		60.1	7.56	0.37	20.31	26.6	chd.	7.45	60.3						
17:44	155		57.3	7.50	0.22	20.20	17.6	chd.	7.49	62.9						→ 3'
17:52	160		52.5	7.46	0.37	21.27	17.3	air	9.92	62.0						→ 9'
18:00	165		52.5	7.44	0.33	22.09	16.0	air	9.93	69.6						→ 5' down
165 = TOTAL VOLUME REMOVED (GAL)																

DEVELOPMENT METHOD: RECLAIMER + S-30-140

NOTES:

[Signature]

PURGING AND SAMPLING FORM

20134424

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 Wagner</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 $\frac{L}{min}$</u>

Stabilization Criteria: pH \pm 0.1 S.U., Conductivity \pm 5%, Dissolved Oxygen \pm 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity \leq 5 NTU; Purge volume \geq 3L purge water, water level \leq 0.3 ft; Temp and ORP record only

Sample Description

Sample ID: 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 6020/7470)
	500 mL plastic	-	Anions/Total-Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SM-946-9315/9320)

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 μ 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

→ GOLDR

WELL DEVELOPMENT FIELD RECORD

no. 1 of 2

PROJECT NAME NUMBER 20184-184
 WELL ID NO. 2
 DEVELOPER BY J. W. ABRAHAM
 STARTED DEVL. 04/16/15 15:31
 W.L. BEFORE DEVL. 1546.07 ± 1515
 WELL DEPTH BEFORE DEVL. 33.07
 STANDING WATER COLUMN (FT.) 17.41
 SCREEN LENGTH 10'

WELL ID. P2-65
 WELL ID NO. 2
 DATE OF INSTALL. 4-8-20
 COMPLETED DEVL. 04-17-19-11
 W.L. AFTER DEVL. 2619.97 ± 1817
 WELL DEPTH AFTER DEVL. 38.07
 STANDING WELL VOLUME 2.87 m³
 DRILLING WATER LOSS — m³

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DTH (FT)	FIELD PARAMETERS								Pump from Bottom Remarks
				SP. GR. (Wt)	To Cloud (inches)	TEMP (°F)	Turbidity (NTU)	Color (APC)	PH	ORP (mV)	ORP (mV)	
04/16/15 15:31	5		28.50	6.87	0.16	17.43	700	800	9.17	67.0	6" sub-10	
15:38	6	0.53	27.71	7.01	0.16	17.45	205	700	8.76	68.6	DRY, sub-10	
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	68.6	sub-10	
16:15	17		30.48	7.07	0.16	17.97	717	700	7.46	67.1	sub-10	
16:28	22		29.77	7.27	0.15	17.91	290	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	7.07	0.15	17.35	1087	700	9.15	72.5	sub-10	
16:55	33		29.59	7.18	0.15	17.34	254	600	9.31	75.0	sub-10	
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	sub-10	
17:32	44		25.12	7.09	0.14	17.35	603	700	7.04	60.7	sub-10	
17:36	48		27.31	6.92	0.14	17.36	106	700	7.57	72.3	sub-10	
17:53	53		26.4	6.94	0.14	17.38	124	700	7.82	72.0	sub-10	
18:05	54		25.12	6.97	0.14	17.35	876	700	6.78	55.9	sub-10	
18:07	58		29.74	6.91	0.13	17.31	125	700	7.87	71.4	sub-10	
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	sub-10	
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	26.2	600	7.94	70.7	sub-10	
19:03	-		29.90	6.98	0.14	17.26	137	700	7.52	58.9	sub-10	
19:08	78		27.31	6.90	0.13	17.32	51	700	8.52	73.3	sub-10	
09/17/20	-		15.53	-	-	8600	200	9/17	-	-	6" sub-10	
09:26	83	0.38	28.10	6.40	0.14	17.12	65.3	700	7.63	81.0	sub-10	
09:35	88		27.31	6.69	0.14	17.17	59.5	700	7.78	90.7	sub-10	
09:51	93		29.55	6.74	0.13	17.22	678	700	7.80	92.4	sub-10	
10:10	98		25.40	6.26	0.14	17.29	2000	700	7.90	96.4	sub-10	
10:17	103		27.31	6.81	0.14	17.46	16.9	600	8.63	100.7	sub-10	
10:34	108		29.5	6.26	0.13	17.35	2000	700	7.57	97.9	sub-10	
10:50	113		28.15	6.70	0.13	17.37	2000	700	7.31	99.4	sub-10	
11:06	118		25.5	6.85	0.14	17.53	72.3	700	6.47	100.1	sub-10	
11:14	123		30.5	6.72	0.13	17.49	27.9	600	6.72	102.1	sub-10	
11:30	128		27.3	6.74	0.13	17.48	119	700	7.58	101.2	sub-10	
11:48	133		25.60	6.43	0.13	17.38	42.4	700	6.73	102.4	sub-10	
	170											

11/20 sub

sub-10

sub-10

sub-10

sub-10

REMARKS: RECOMMEND AS SCREEN IS SO CLOSE TO WT, PUMPING WITH DRY THEN SCREEN TO WELL TO RECHARGE THEN SUB-10 REPORT



5/28/2020

GOLDER

WELL DEVELOPMENT FIELD RECORD

page 2

PROJECT NAME NUMBER 20135424
 WELL ID: 2
 DEVELOPER BY J. Williams
 STARTED DATE: 07-16-15 : 31
 WELL BEFORE DEVL: 15.6 : 09.8 : 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: 4-2-20
 COMPLETED DEVL: 09-12 : 19.11
 WL AFTER DEVL: 26.9 : 09.2 : 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 (ft)	FIELD PARAMETERS								Pump FROM REMAINS (B-TT) (ft)
				WT (lb)	To Cont (inches)	TEMP (°F)	Turbidity (NTU)	Flow (gpm)	POC (mg/L)	DPH (in)		
04:17/11:58	132	0.33	31	6.79	0.13	17.55	17.5	cur	7.23	109.5	Reid @ 6" →	
12:11	143		28.2	6.73	0.13	17.33	71.9	cur	7.52	101.2	5" →	
12:22	148		27.5	6.78	0.13	17.71	35.9	cur	7.00	109.7	Reid. Pump →	
12:42	-	0.25	23.5	6.71	0.13	17.19	82.5	cur	6.99	105.0	Pump @ 5'	
12:45	153	160 th	25.0	6.62	0.13	17.07	91	cur	5.25	109.7	Reid @ 6"	
12:50	152		25.1	6.61	0.13	17.97	85.9	cur	9.55	108.0	2" →	
13:15	163		24.9	6.64	0.13	18.20	46.9	cur	3.78	105.2		
13:30	162		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 @ 5' →	
/												
170		= TOTAL VOLUME REMOVED (gal)										

5'
 30" low-flow

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 WAGERSPAHN	
SmartTroll serial #: 646770		Lamotte serial #: 2279-2612	

Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (RBTDC)	Pumping Rate
14:10	CLR	NONE	6.40	150.58	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 μ 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

PROJECT NAME / NUMBER: 2-129289 WELL NO: PZ-66

WELL ID NO: 2 WELL ON BY: _____

DATE OF INSTALL: _____

STARTED LEVEL: 4.820 852 COMPLETED LEVEL: _____

WELL DEPTH (FEET): 58.70 + 0.535 W. AFTER LEVEL: _____

WELL DEPTH (METERS): 31.91 1.62 WELL DEPTH AFTER BEING: _____

STANDING WATER (GAL/CM FT): _____ STANDING WELL (GAL/CM FT): _____


STANDING WATER (LITERS): 10 (28.2, 38.7) DRAINAGE WATER LOSS: _____

DATE/TIME	WELL DEPTH (FEET)	FLOWING RATE (GPM)	FLOWING RATE (LPM)	FIELD PARAMETERS										REMARKS
				STRT	END	TEMP	TURBID	PH	RES	SPR	WELL	WELL	WELL	
4/24/20	5	0.4	3149	6.81	10.22	18.24	7.00	8.00	1.26	7.49		1.44	2.58	
4/24	10.5	0.7	5157	7.24	18.20	18.20	4.40	7.44	9.44	7.44		7.44	7.44	
9/10	17.5	0.7	740	7.74	17.41	18.16	8.11	7.24	7.24	7.24		7.24	7.24	REV, PUMP
4/24	19.5	—	5141											
4/24	—	—	5221											
4/24	—	—	5025											
04/24	—	—	4846											
10/20	15.7	—	4781	7.61	18.21	19.09	6.08	7.31	9.24	9.24		9.24	9.24	RELINQ
10/15	15.5	0.4	4910	7.58	18.20	18.24	7.51	7.51	8.87	8.87		8.87	8.87	REV PUMP, PUMP REV again
PULLING PUMP WITH APTMAN w/ BALLS														
1/20	40	—	3531	7.31	18.2	20.2	6.1	6.46	10.1	10.1		10.1	10.1	
1/20	4	—	712	18.2	4.4	4.4	7.44	7.44	7.44	7.44		7.44	7.44	
1/21	4.5	—	7.18	18.5	4.5	7.15	7.15	7.15	7.15	7.15		7.15	7.15	REV PUMP

4/22 3.75
4/23 3.80
4/24 1.42

DEVELOPMENT SERVICE: _____

DATE: 0.22 4/20 - change

 _____

5/28/2020

GOLDER 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 μ 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: 24.4/4/2020
 WELL DEPTH BEFORE DATE: 38.2'
 STANDING WATER CHLORINE (PT): 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: 27.0/4/2020
 WELL DEPTH AFTER DATE: 42.8' B Tot
 STANDING WELL VOLUME: 3.03
 DRILLING WATER LOSS: 0'

DATE/TIME	VOLUME REMOVED (GAL)	PUMPING RATE (GPM)	DYSK IN	WELL PARAMETERS								REMARKS	
				PH (pH)	Sp. Cond (µmhos/cm)	TEMP (°F)	Turbid (NTU)	CHL (ppm)	RES (ppm)	ORP (mV)			
10:10			24.1										
10:20	3		28.3	7.41	264.5	19.13	7.61	Clear	9.11	29.0	60000/mg	color - sulfur/surge	
10:35	3		28.4	7.46	290.3	19.04	9.08	Clear	9.15	28.0	80000/mg	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	200000/mg		
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 24' B Tot												
12:00	3		31.5	6.88	200.0	20.74	15.8	Clear	6.78	100.6		- set up low-flow. color 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 μ 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"
 DEVELOPED BY: 826 Coakley
 STARTED DATE: 11/1/20

WELL DIA BY: 2"
 DATE OF WORK: 4/17/2020
 COMPLETED DATE: 4/17/2020

WL BEFORE WORK: 6' 4/19/0930
B.Toc

WL AFTER WORK: 16.0' 4/17/20 1731

WELL DEPTH BEFORE WORK: 23.5' B.Toc

WELL DEPTH AFTER WORK: 23.5' B.Toc

STANDARD WATER COLUMN (FT): 17.5

STANDARD WELL YIELD: 2.82

STANDARD WATER LOSS:

STANDARD WATER LOSS:

DATE/TIME	WELL LOG REMOVED (ft)	FLOW RATE (gpm)	STP (ft)	WELL PARAMETERS								REMARKS
				WT (lb)	Sp. Grav (lb/gal)	TEMP (°F)	Turbidity (NTU)	Color (PCU)	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	6.79	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	18.08	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 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	46.0	16.38	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: 18.8/6.14/158.3/6.58/1.23/clear/2.49/51.80
Finish 1731
42 total gallons removed

[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 μ 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

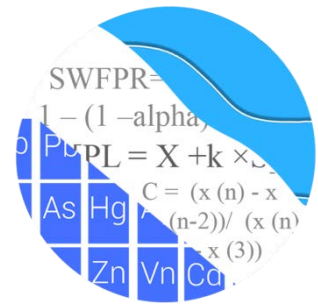


GOLDER

APPENDIX C

STATISTICAL ANALYSES

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

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	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	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
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-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
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-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
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-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
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-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
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-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
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-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
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-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
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-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	Obsrv.	Sig.	Bg N	Bq 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
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-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
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-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
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
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
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-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
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-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
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
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
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-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
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
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-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
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-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

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
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-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
Boron, total (mg/L)	SGWC-18	0.4938	53	48	Yes	14	0	n/a	n/a	0.01	NP
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
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)	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
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-18	9.39	24	48	No	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-21	0.36	17	48	No	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-23	-1.669	-37	-48	No	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
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
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)	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
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-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
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-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
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-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
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)	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
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-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
Fluoride, total (mg/L)	SGWC-7	-0.01539	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
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
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)	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
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-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
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-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
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
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
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	28.55	66	48	Yes	14	0	n/a	n/a	0.01	NP
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)

SCHERER ASH POND GWPS - FEDERAL				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
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*

SCHERER ASH POND GWPS - STATE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
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)
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-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.
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-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)
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-19	0.0025	0.00015	0.02	No	16	0.001492	0.001063	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	SGWC-20	0.2313	0.1689	0.02	Yes	16	0.2001	0.04797	0	None	No	0.01	Param.
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)

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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)
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-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.
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-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)
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-19	0.0025	0.00015	0.02	No	16	0.001492	0.001063	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	SGWC-20	0.2313	0.1689	0.02	Yes	16	0.2001	0.04797	0	None	No	0.01	Param.
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)

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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-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)

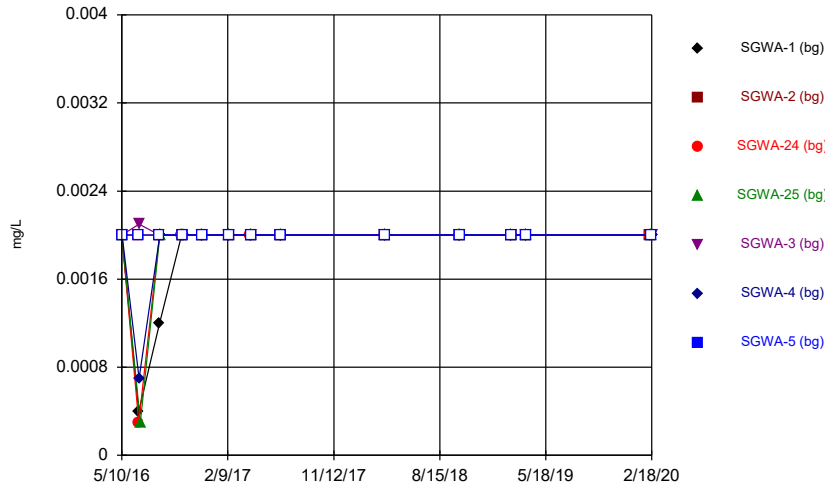
State Confidence Intervals - All Results

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)

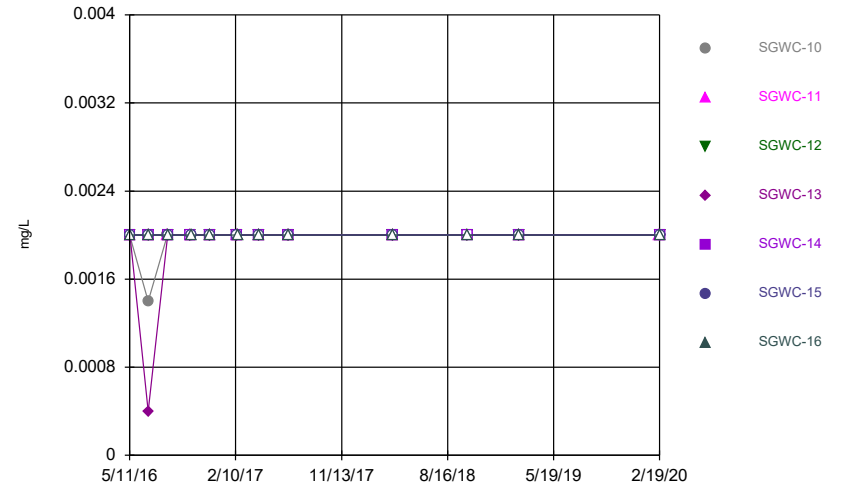
FIGURE A.

Time Series



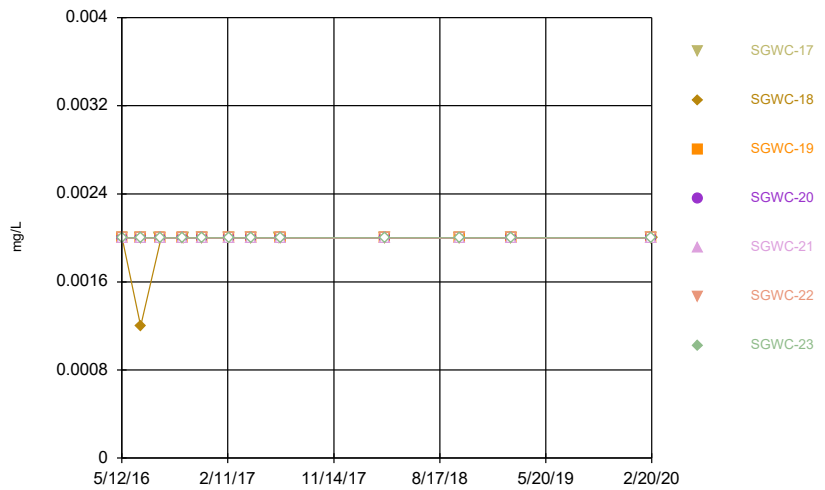
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Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



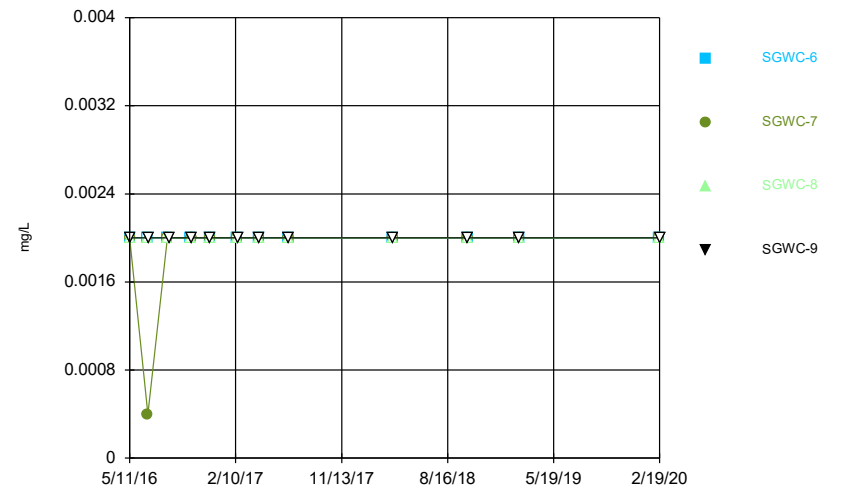
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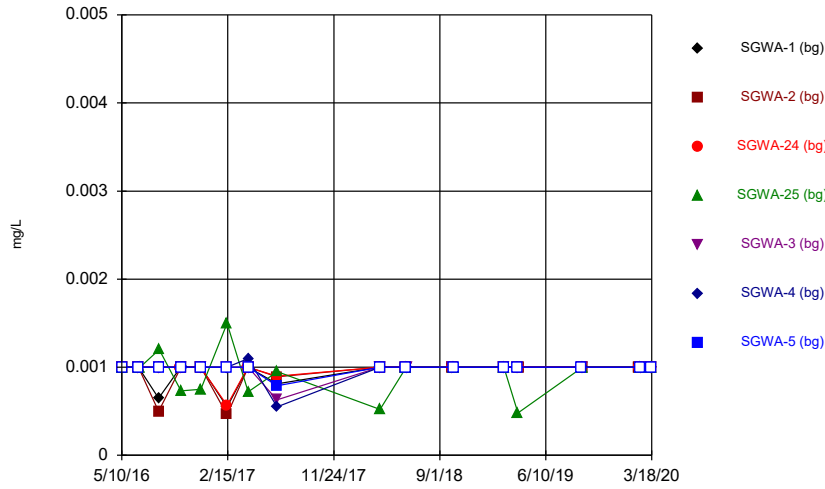
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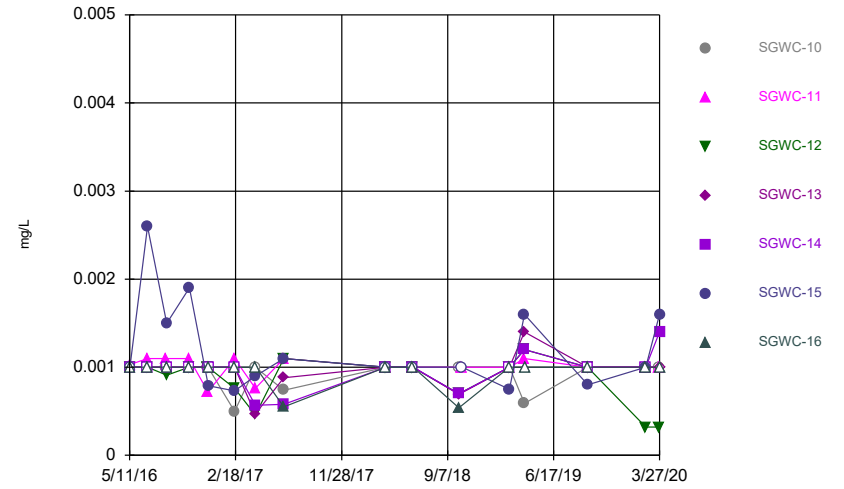
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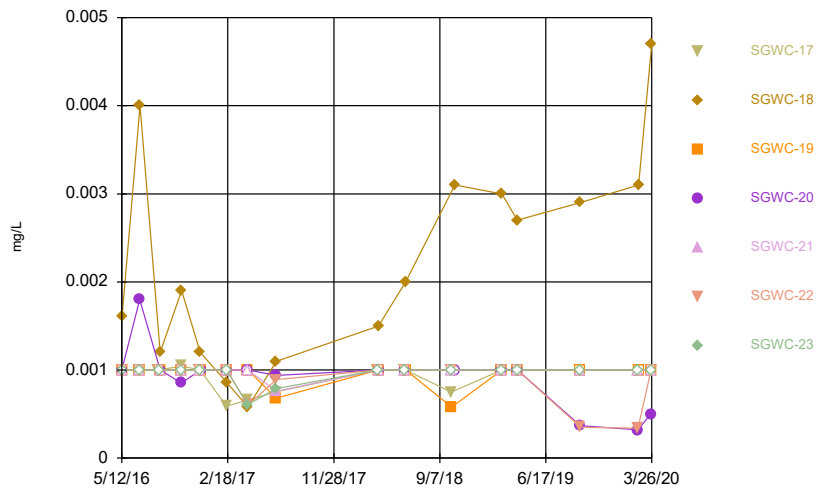
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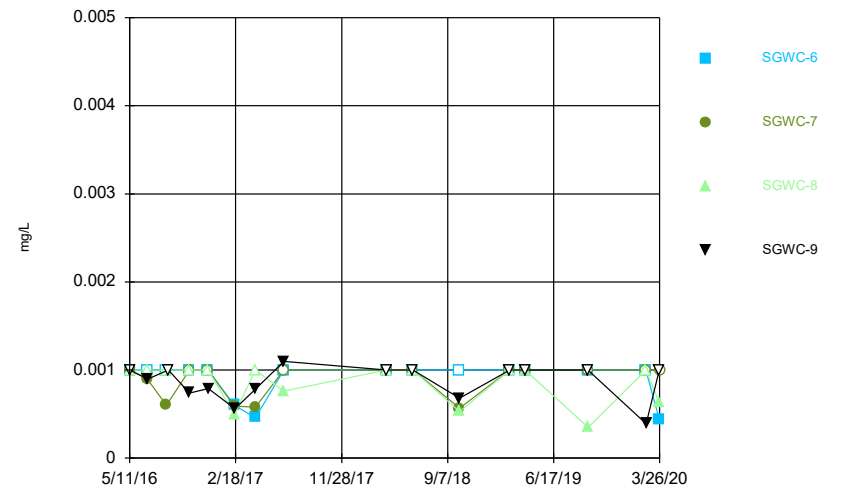
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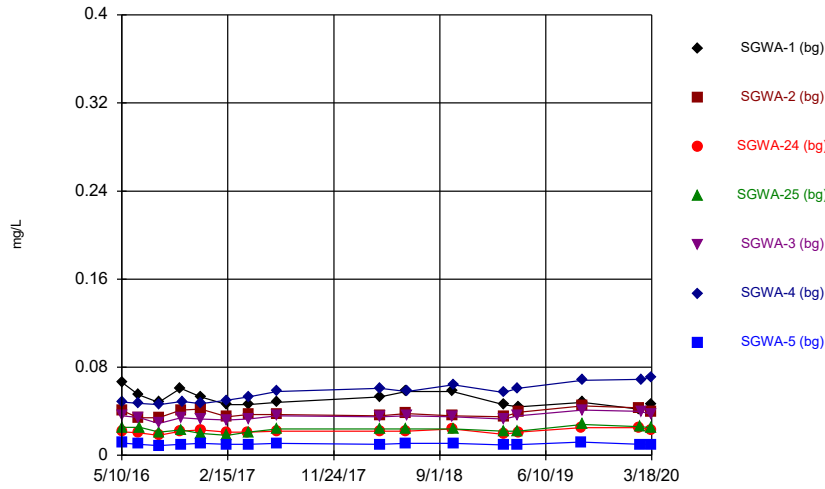
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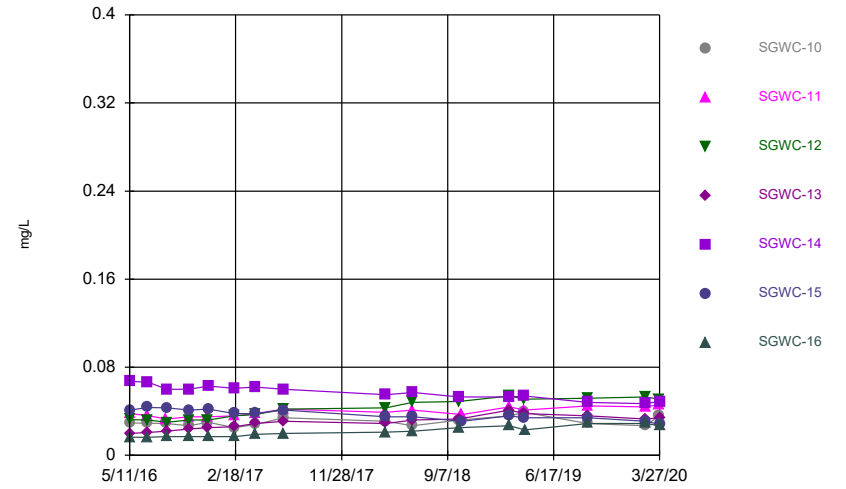
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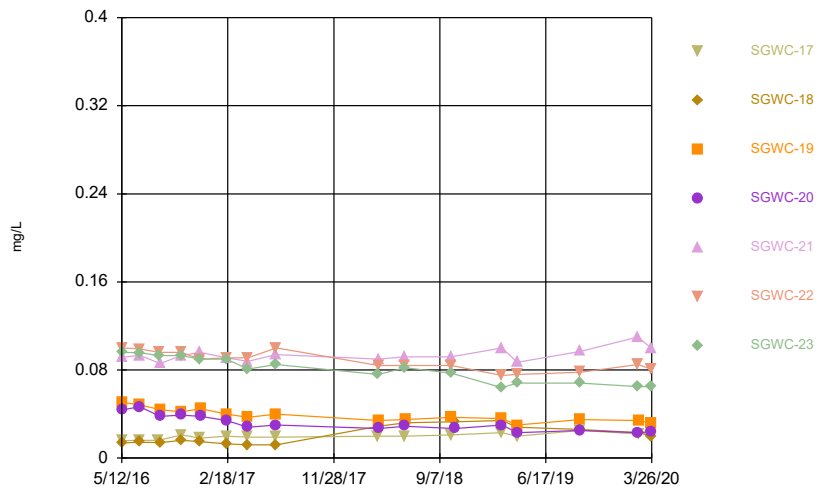
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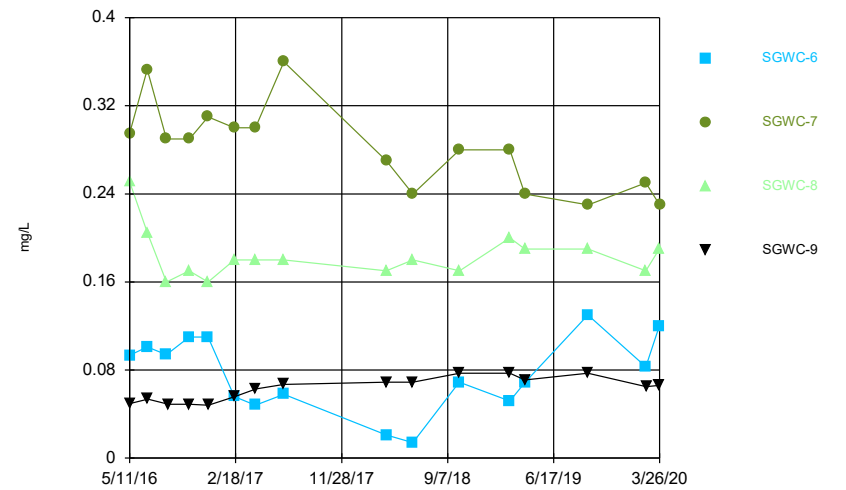
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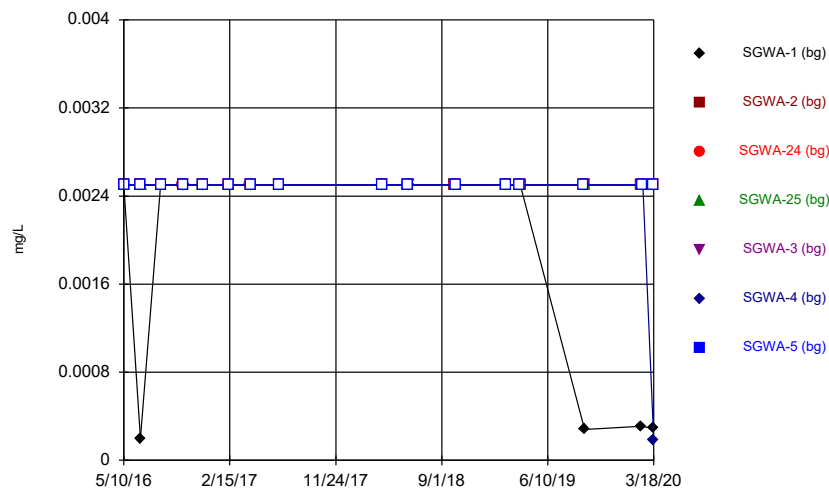
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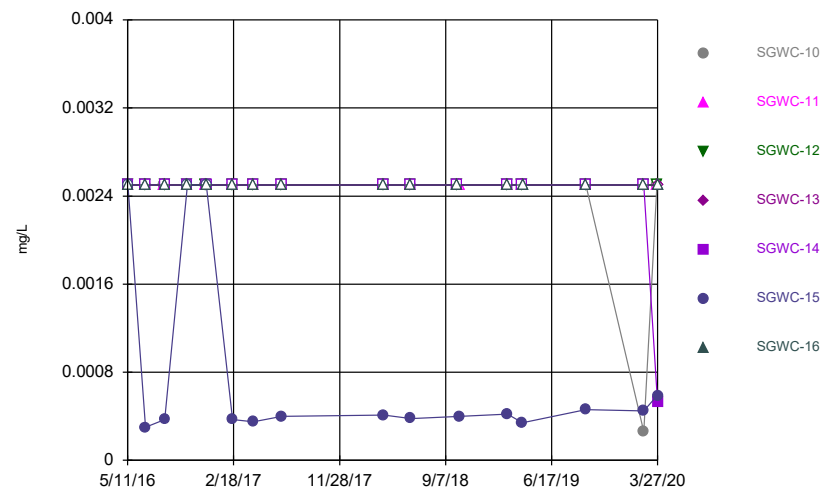
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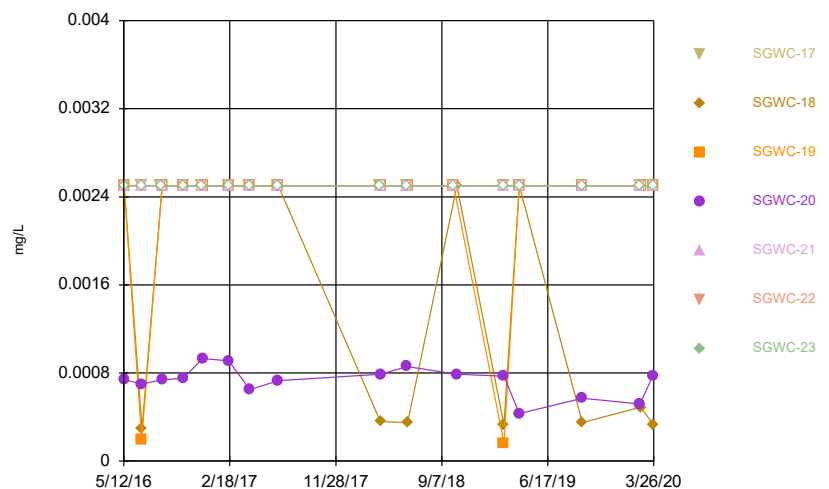
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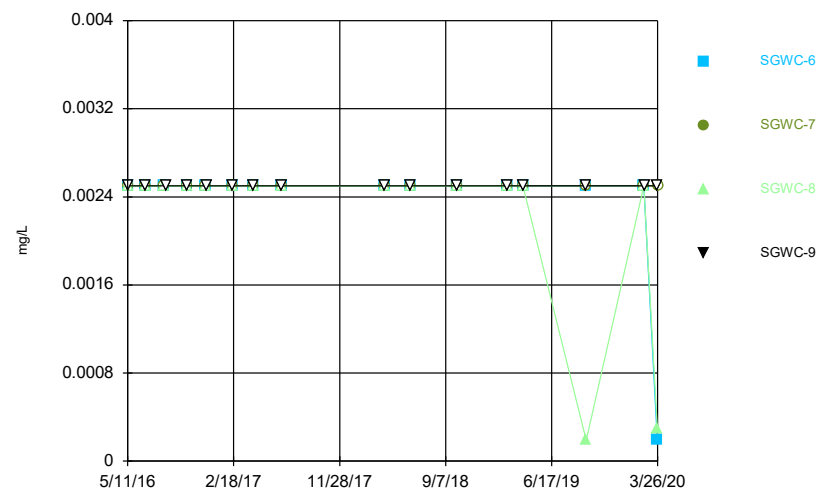
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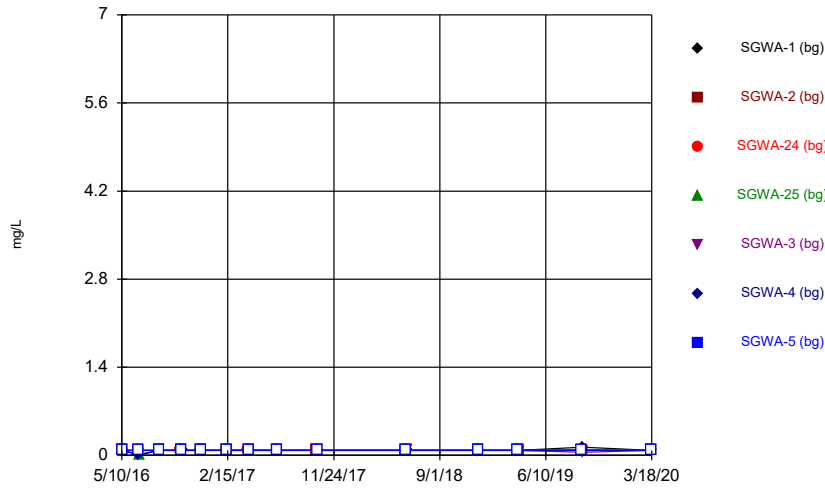
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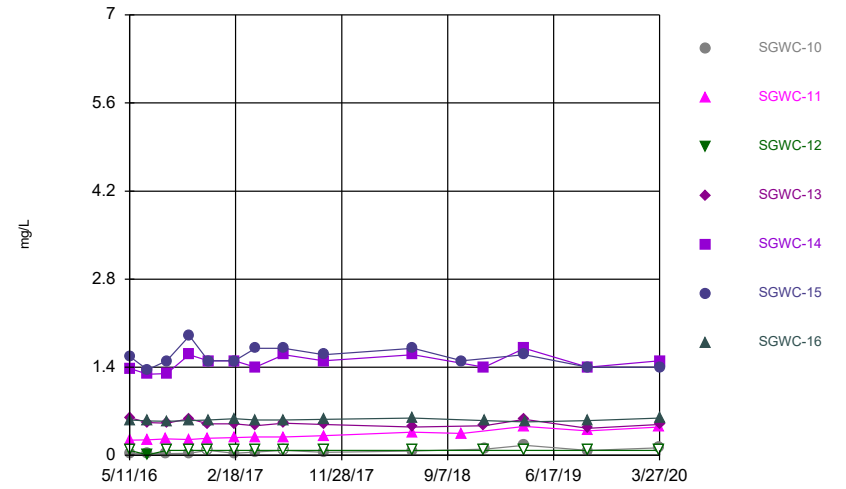
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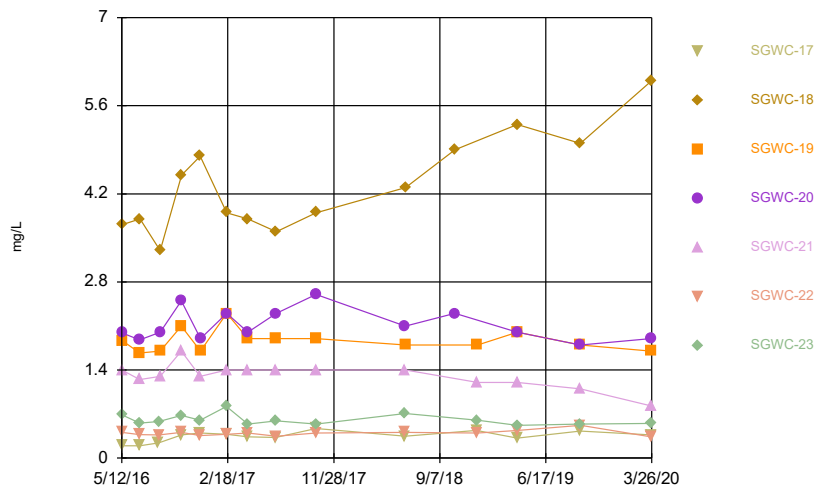
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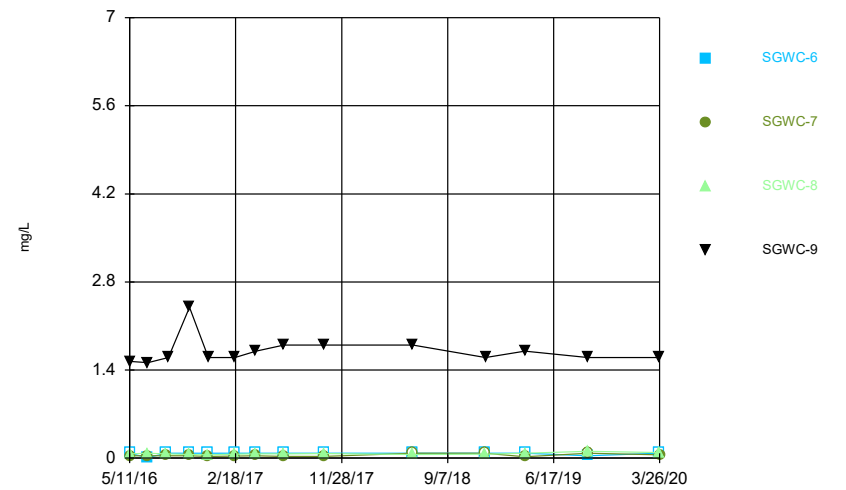
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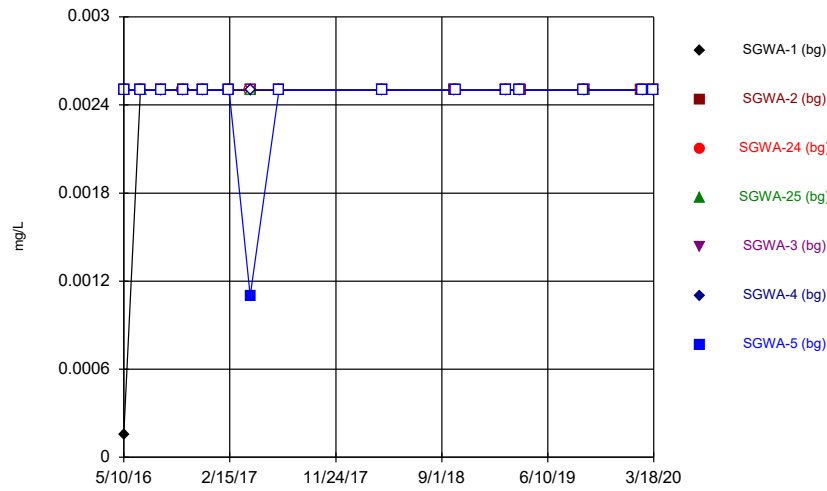
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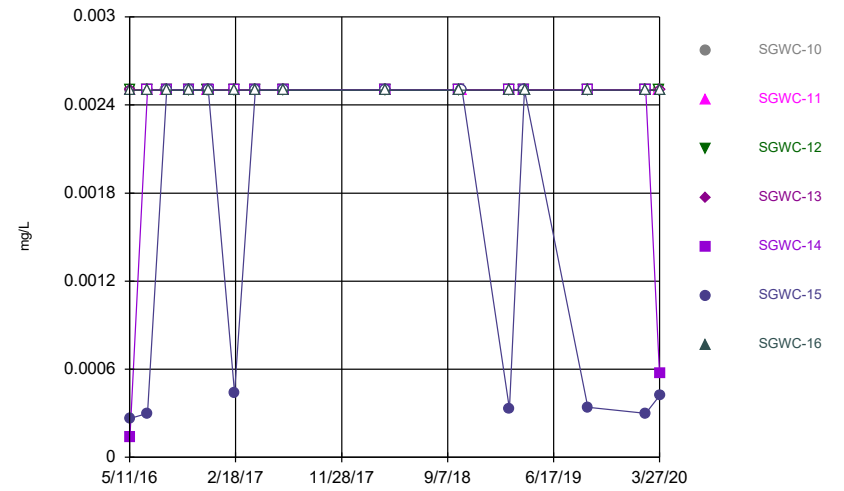
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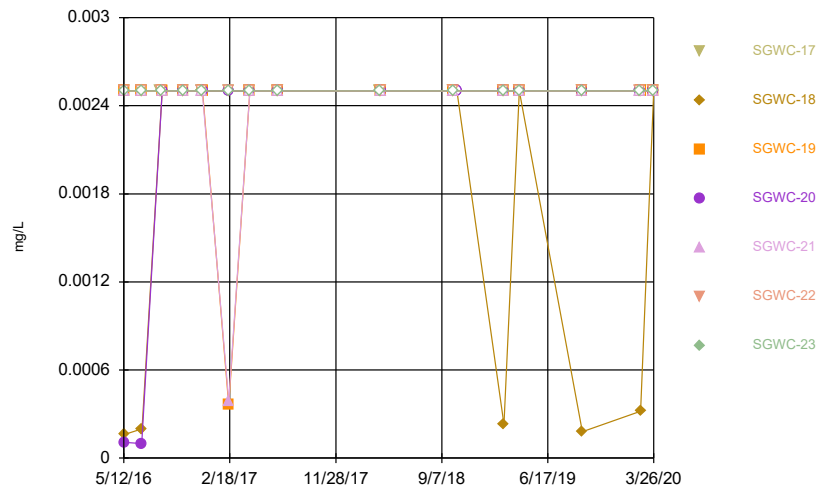
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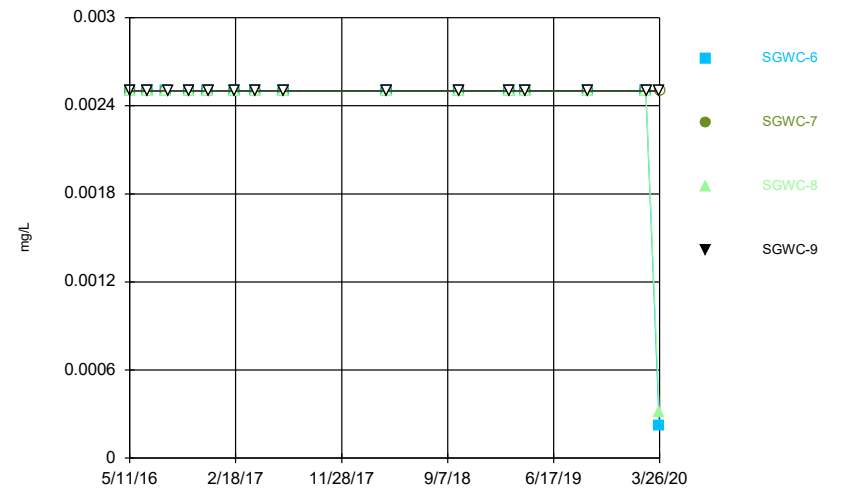
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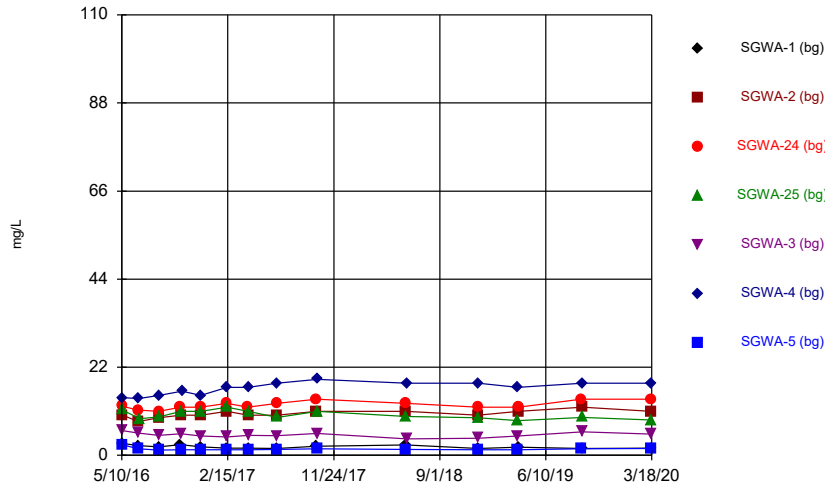
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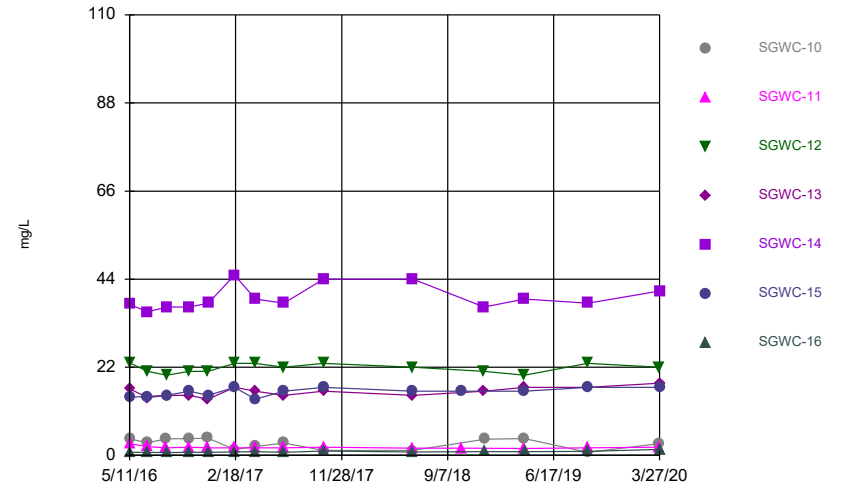
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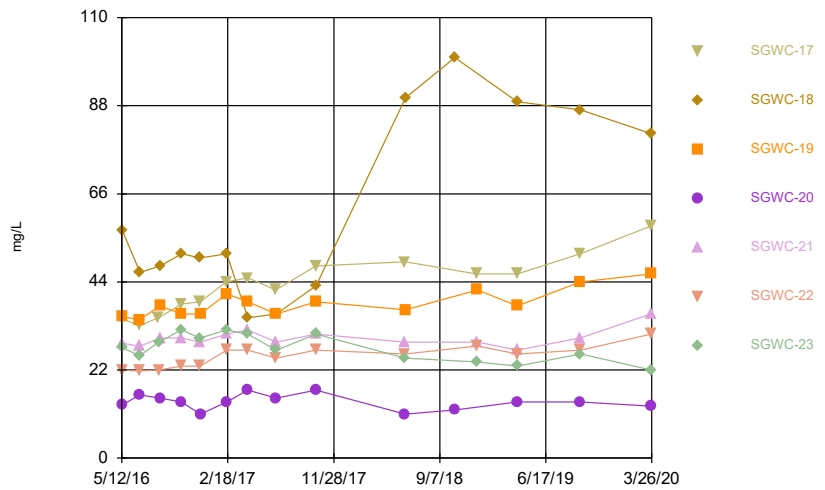
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Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



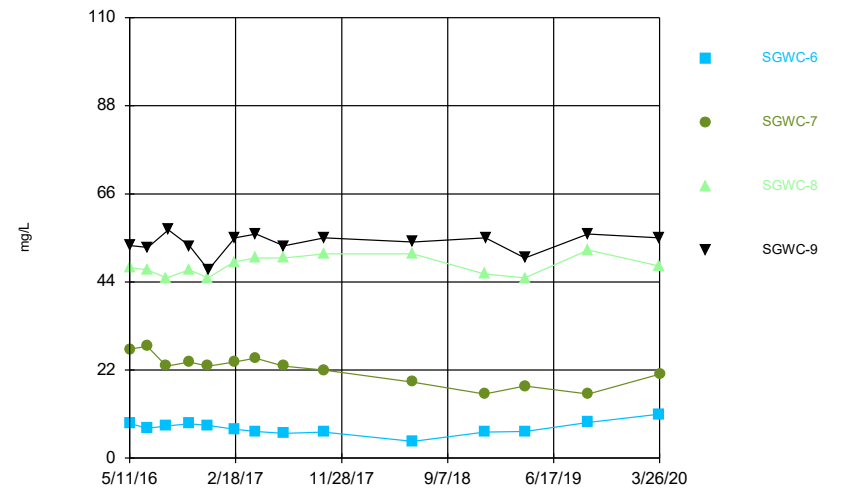
Constituent: Calcium, total Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



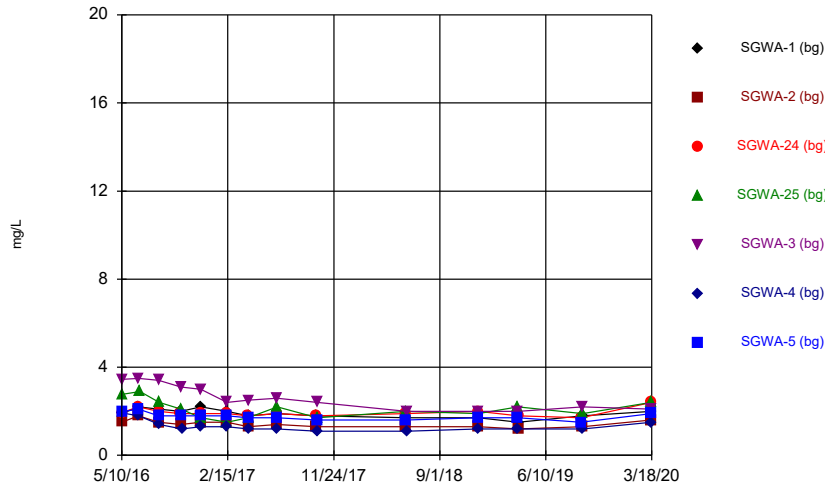
Constituent: Calcium, total Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



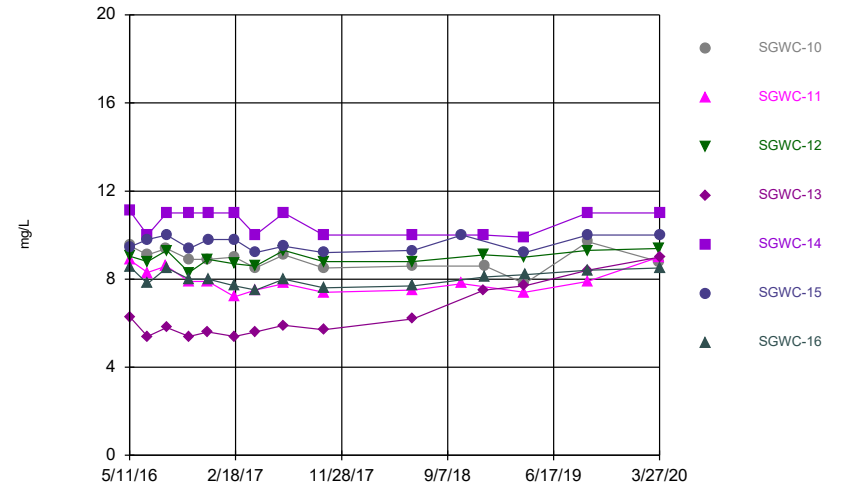
Constituent: Calcium, total Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



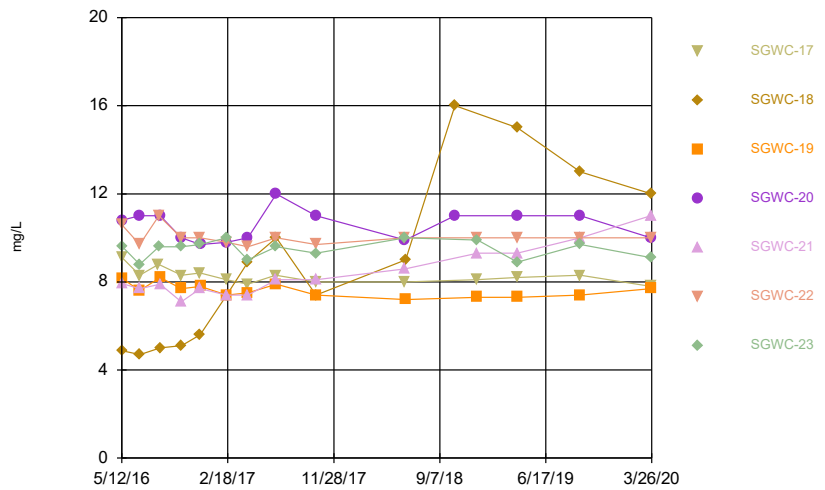
Constituent: Chloride, Total Analysis Run 6/16/2020 2:47 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



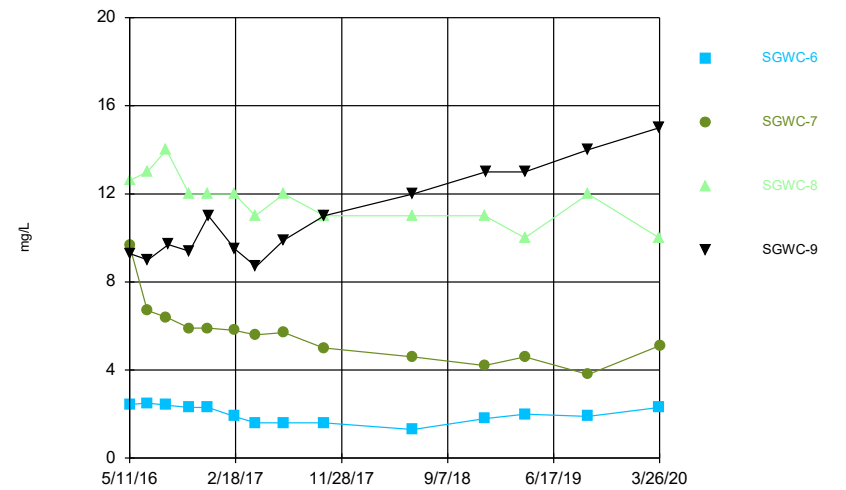
Constituent: Chloride, Total Analysis Run 6/16/2020 2:47 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



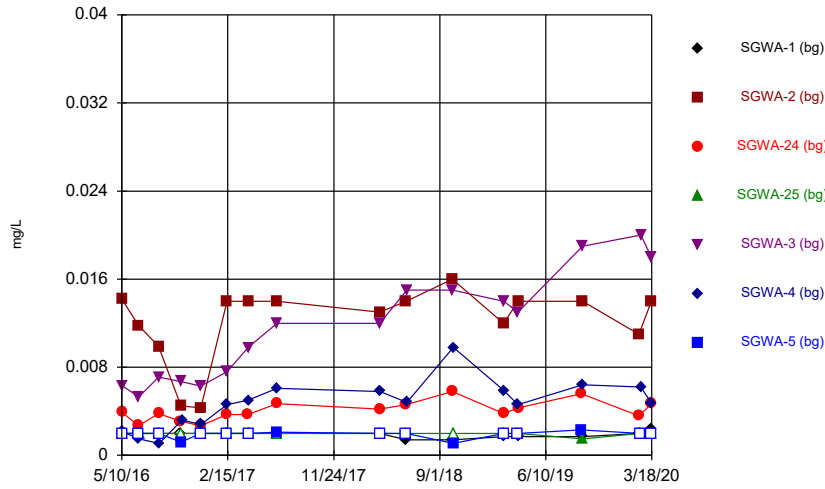
Constituent: Chloride, Total Analysis Run 6/16/2020 2:47 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



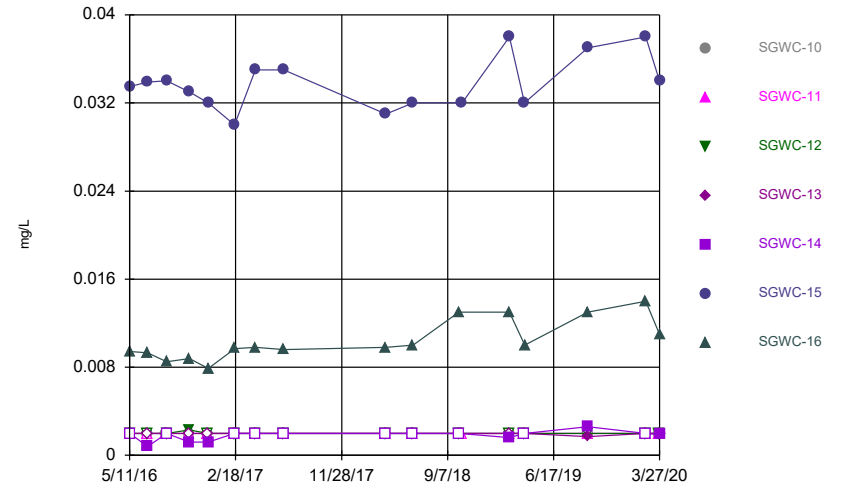
Constituent: Chloride, Total Analysis Run 6/16/2020 2:47 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



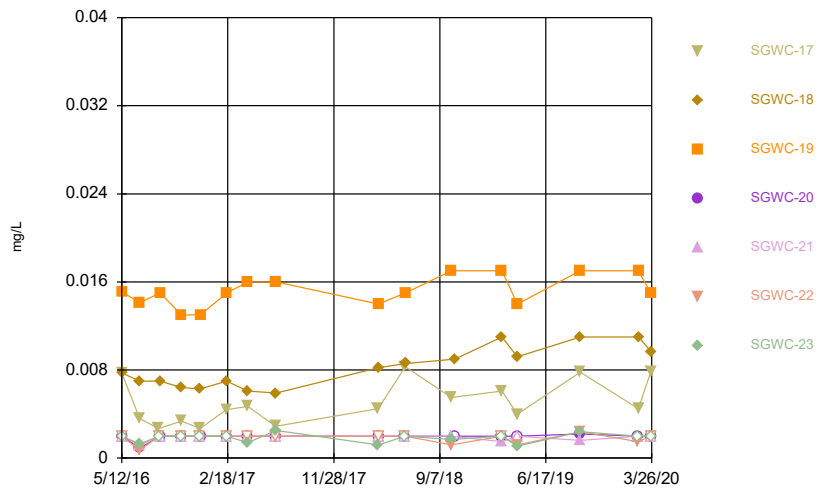
Constituent: Chromium Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



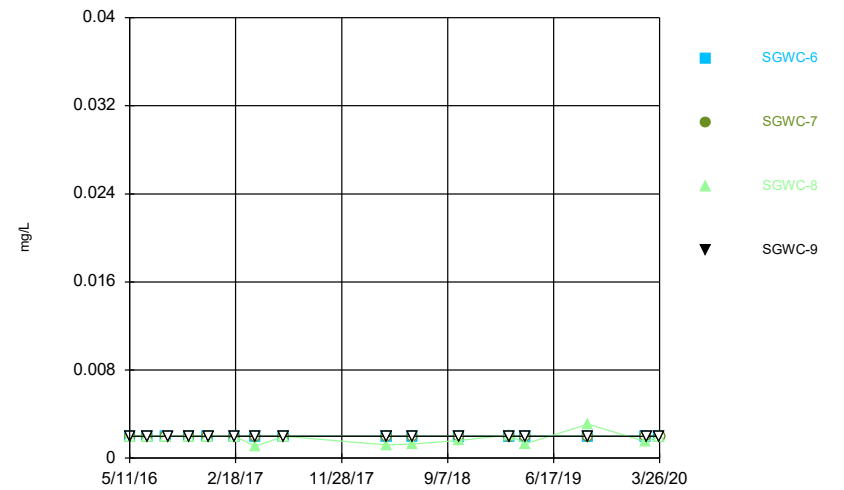
Constituent: Chromium Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



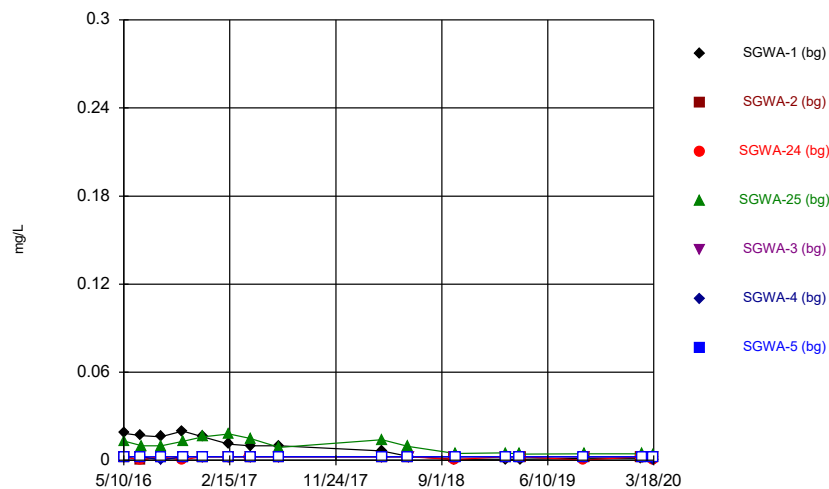
Constituent: Chromium Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



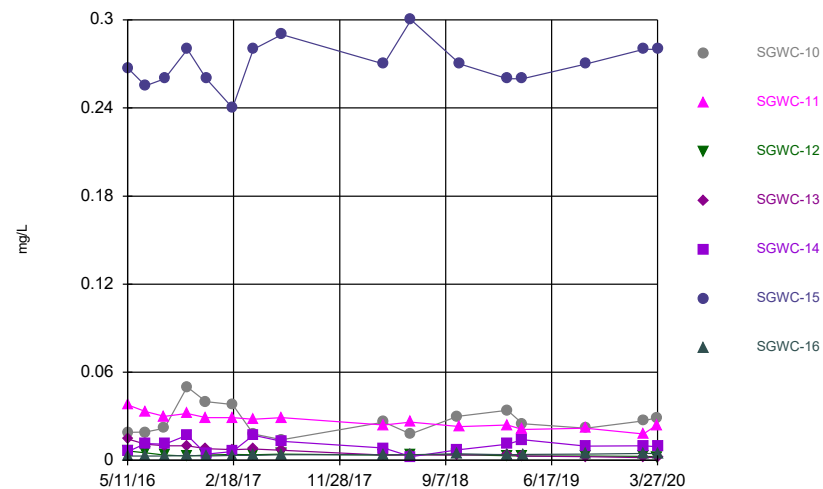
Constituent: Chromium Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



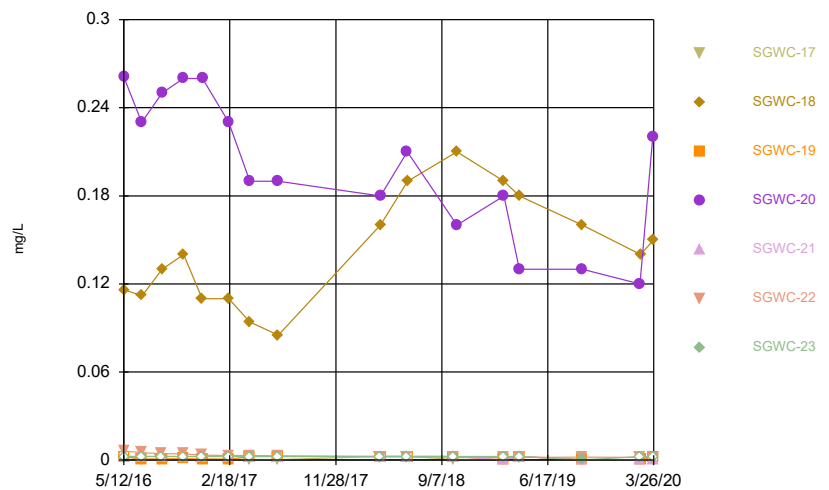
Constituent: Cobalt Analysis Run 6/16/2020 2:47 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



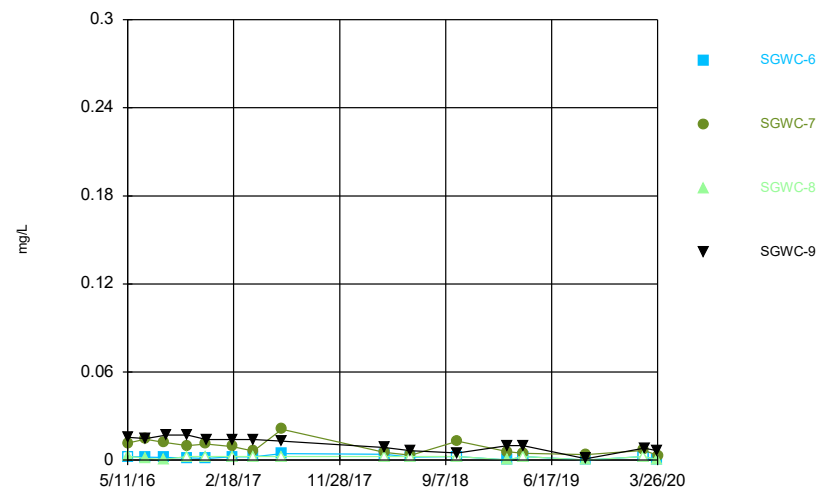
Constituent: Cobalt Analysis Run 6/16/2020 2:47 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



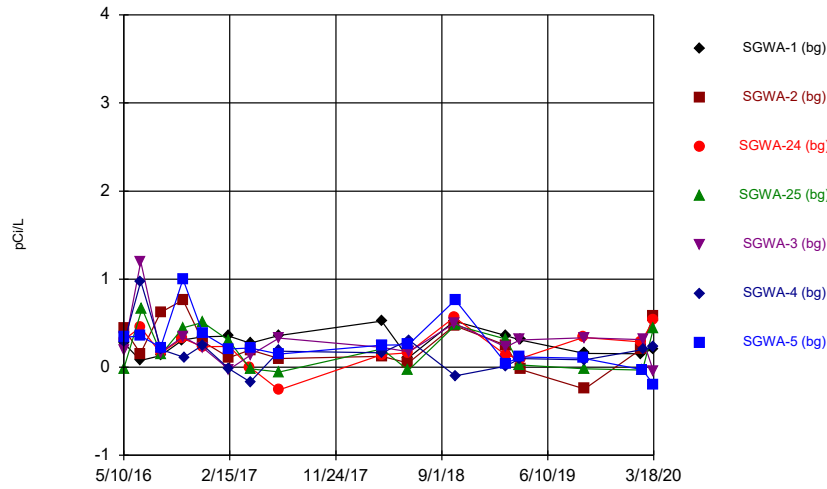
Constituent: Cobalt Analysis Run 6/16/2020 2:47 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



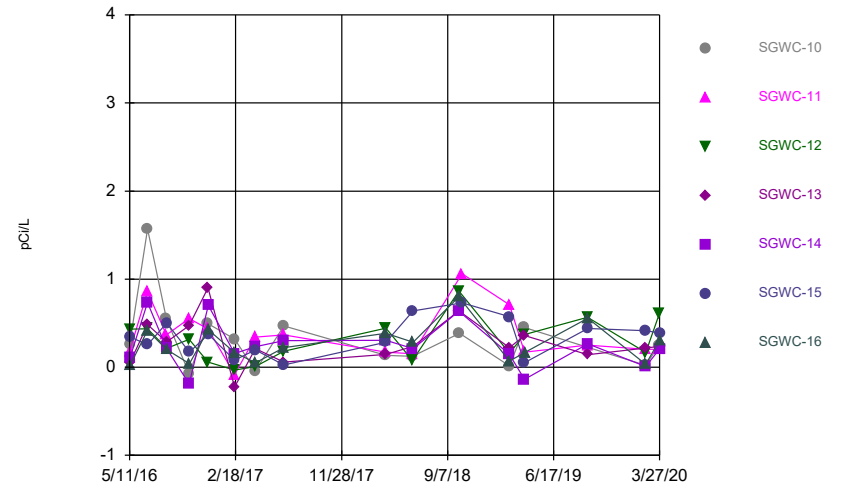
Constituent: Cobalt Analysis Run 6/16/2020 2:47 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



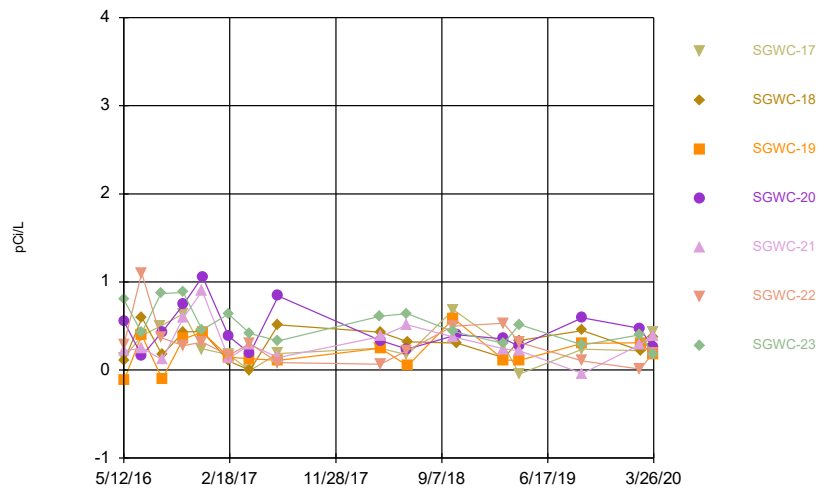
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



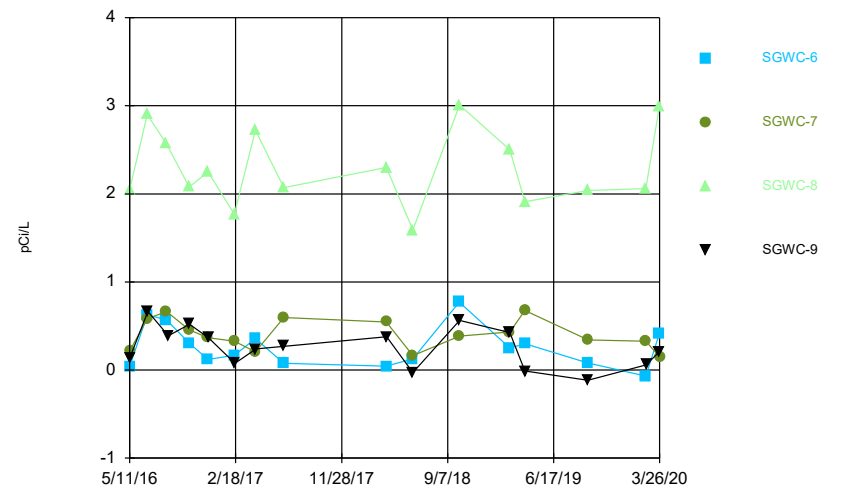
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



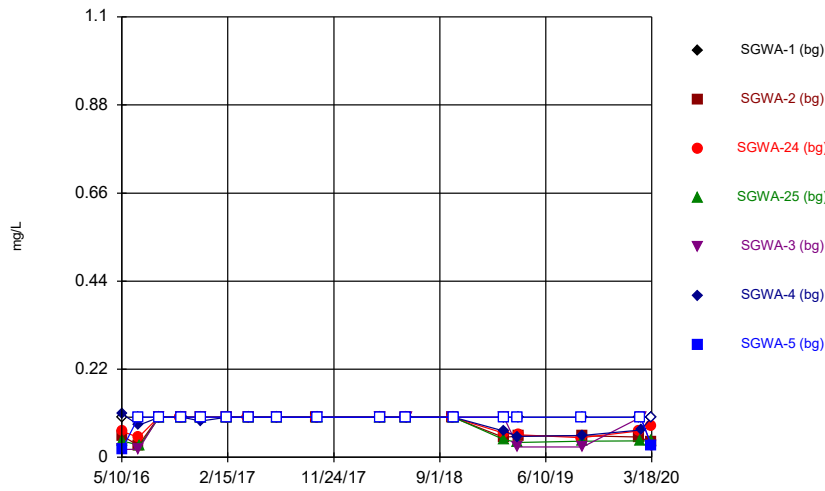
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



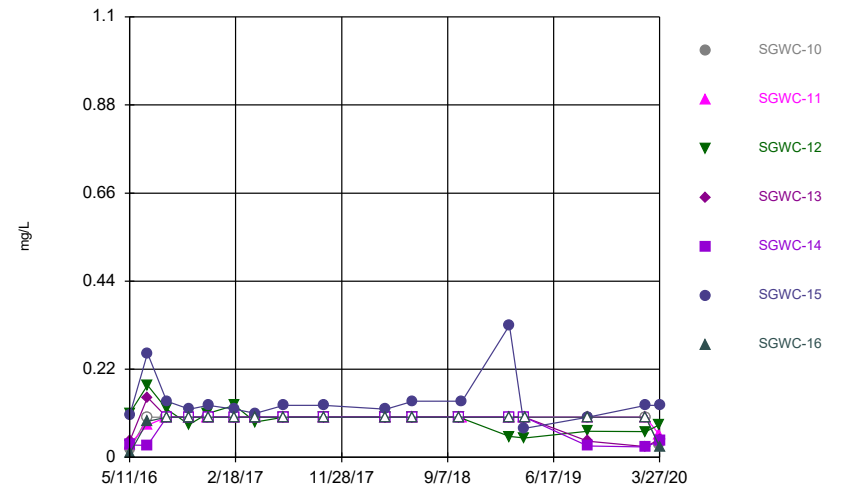
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



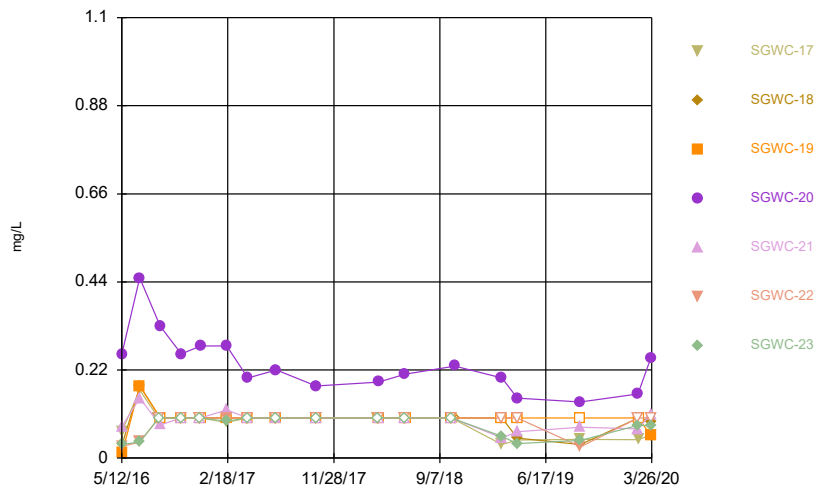
Constituent: Fluoride, total Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



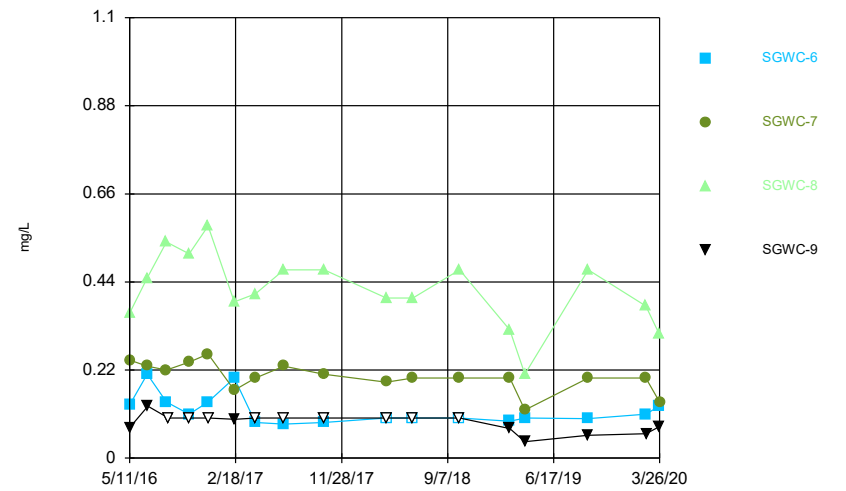
Constituent: Fluoride, total Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



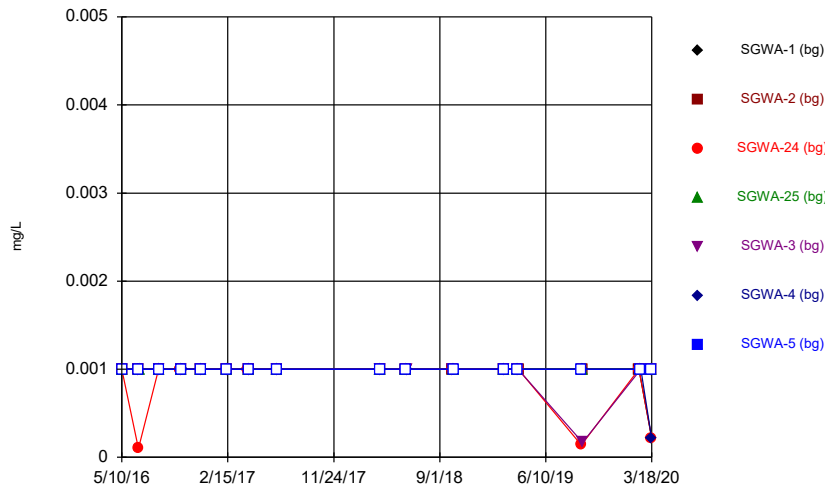
Constituent: Fluoride, total Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



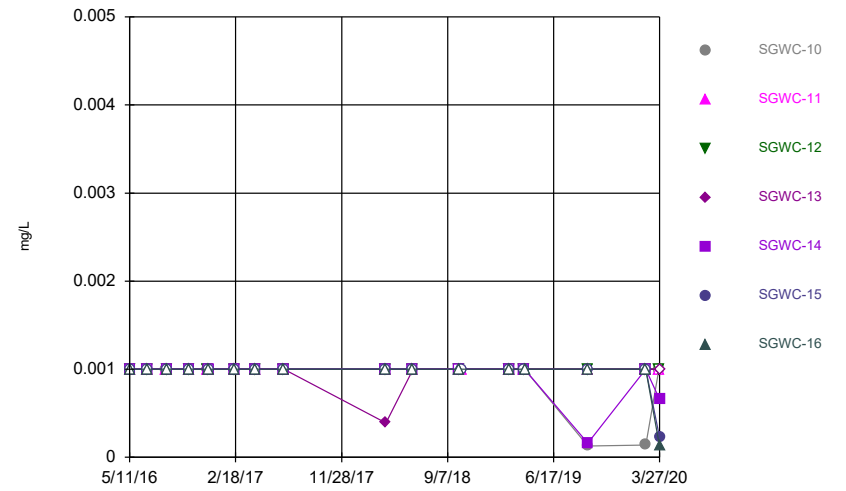
Constituent: Fluoride, total Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



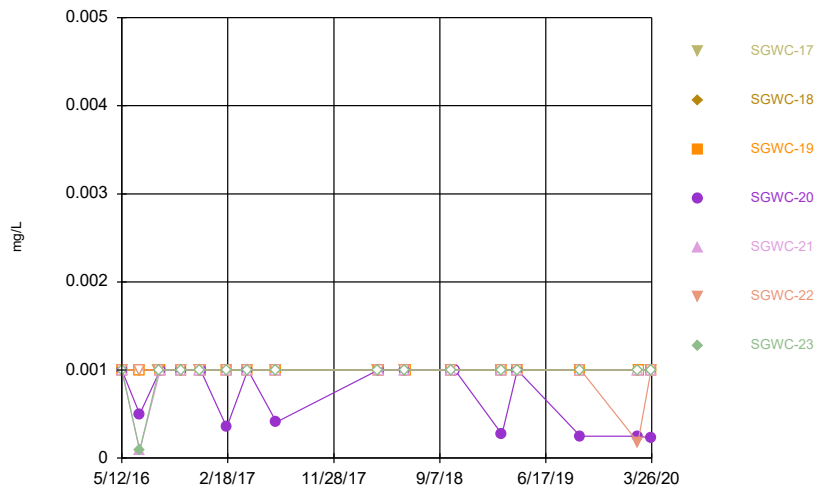
Constituent: Lead Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



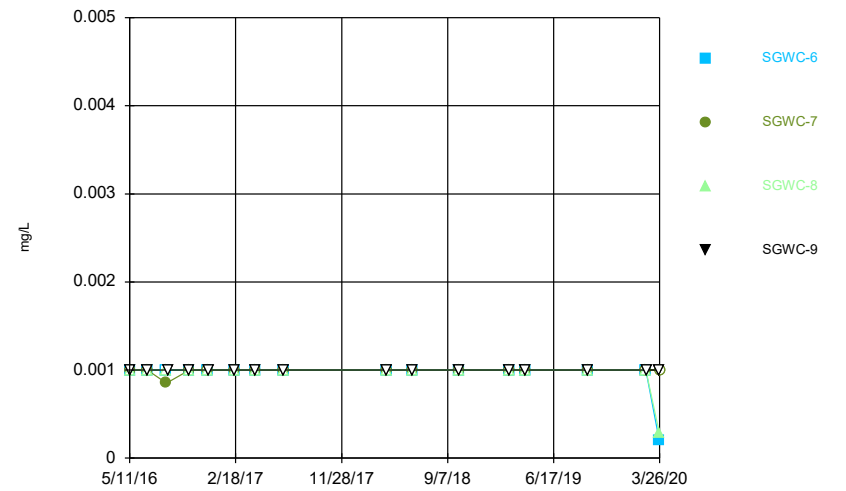
Constituent: Lead Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



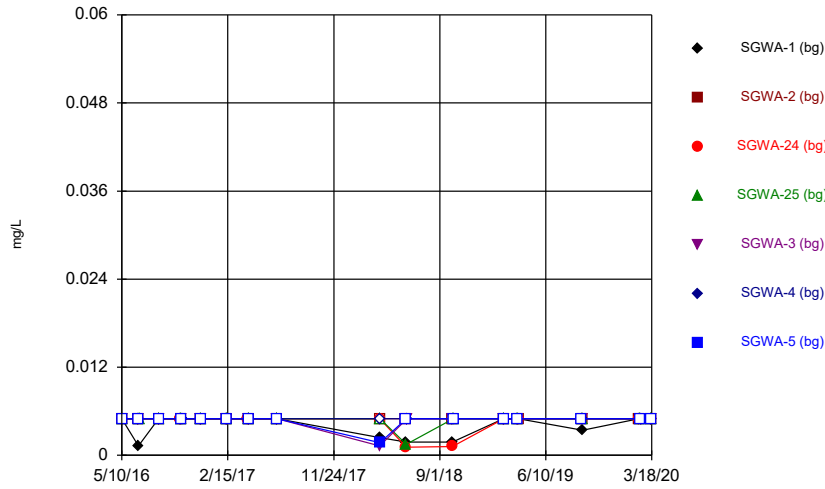
Constituent: Lead Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



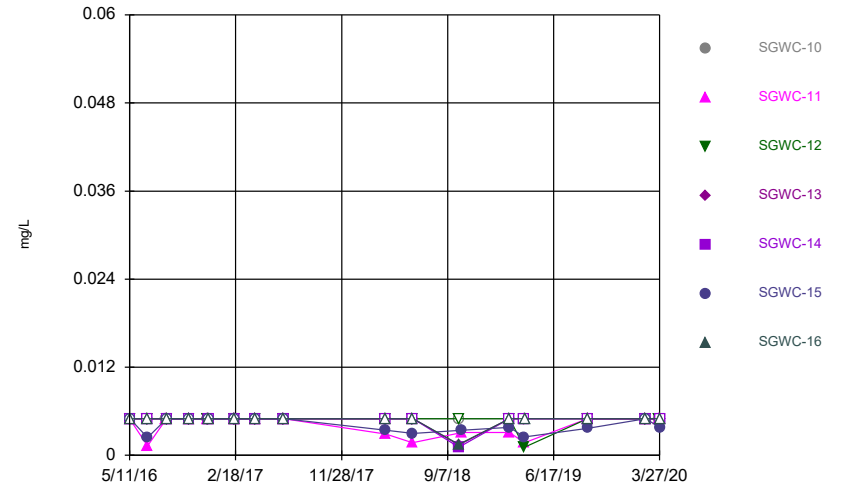
Constituent: Lead Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



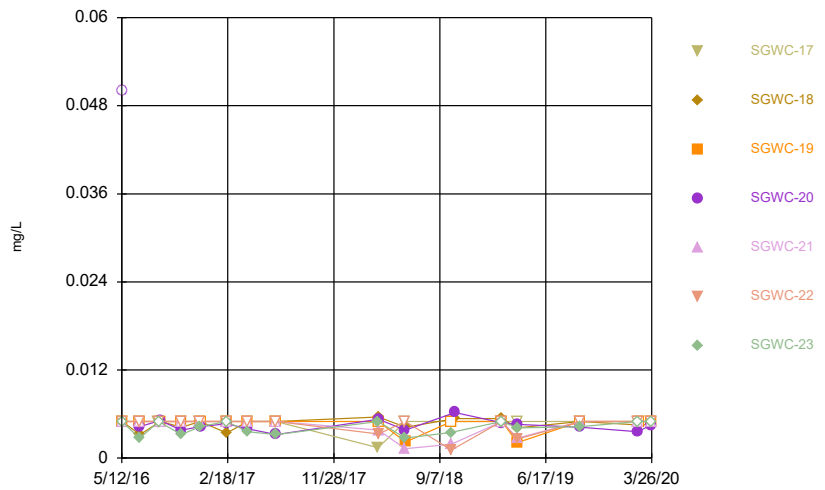
Constituent: Lithium Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



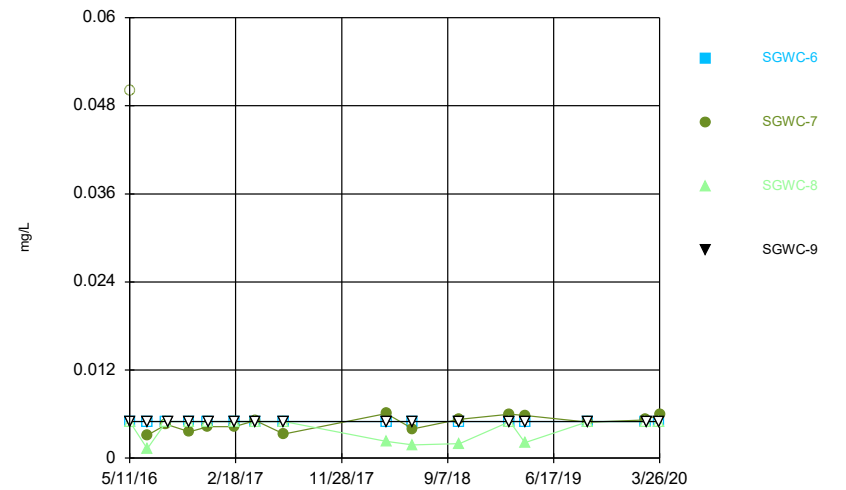
Constituent: Lithium Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



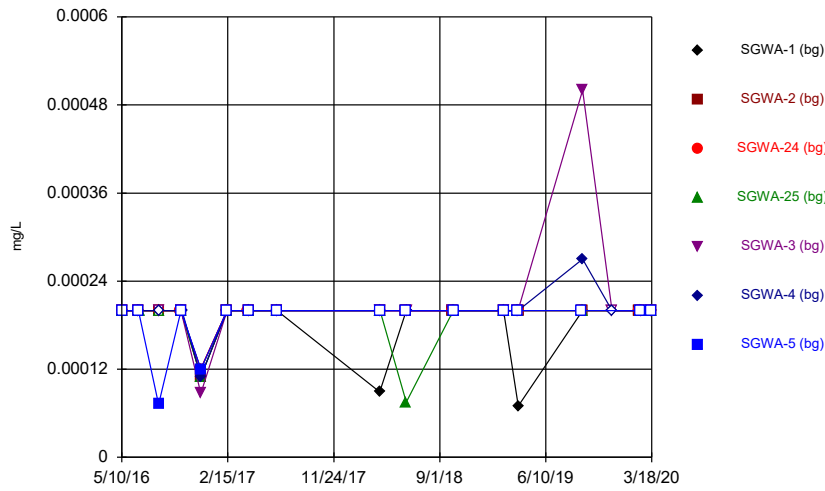
Constituent: Lithium Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



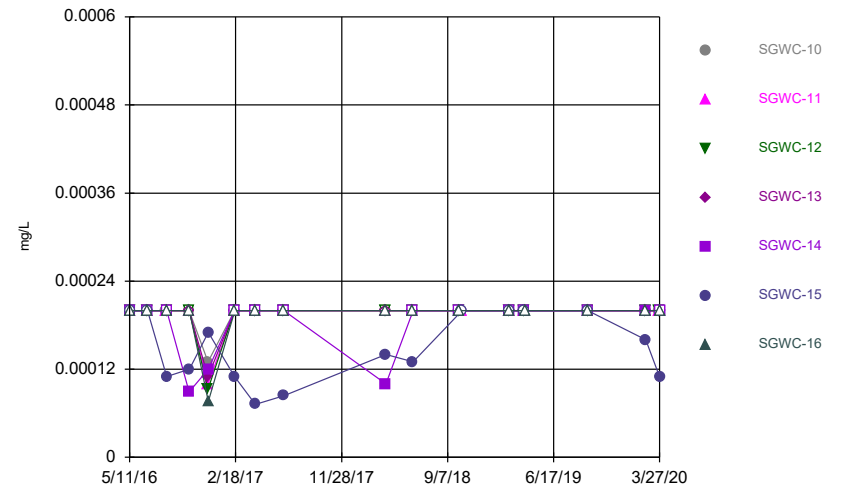
Constituent: Lithium Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



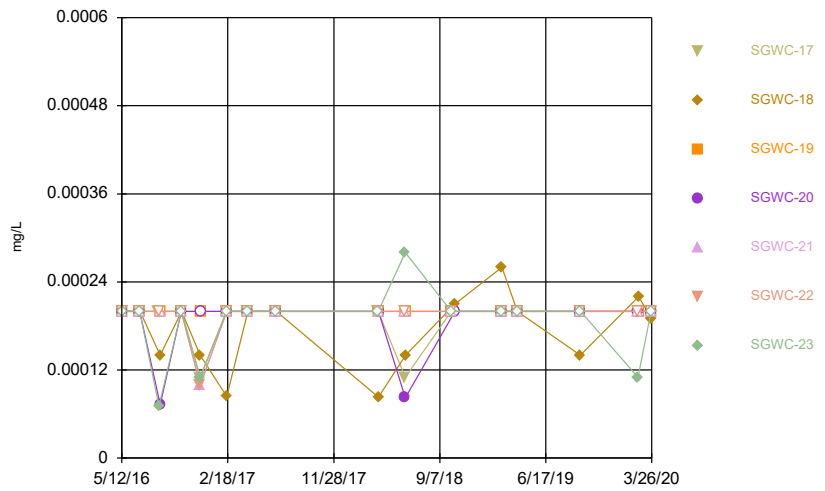
Constituent: Mercury Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



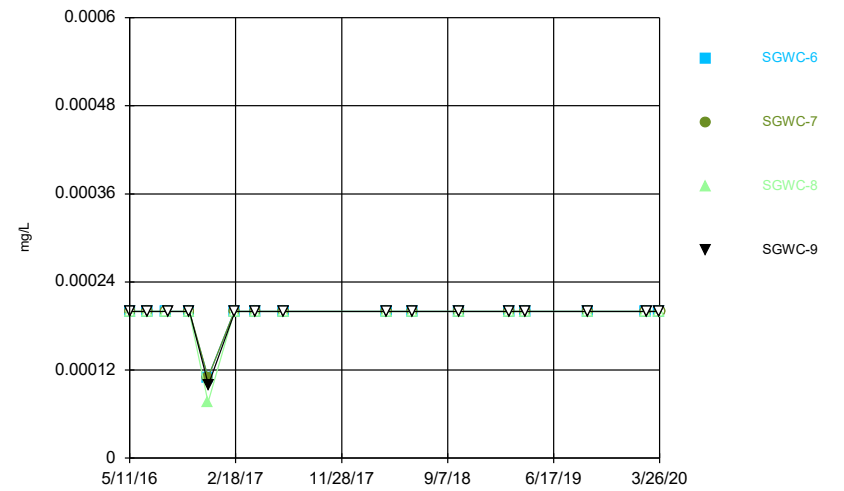
Constituent: Mercury Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



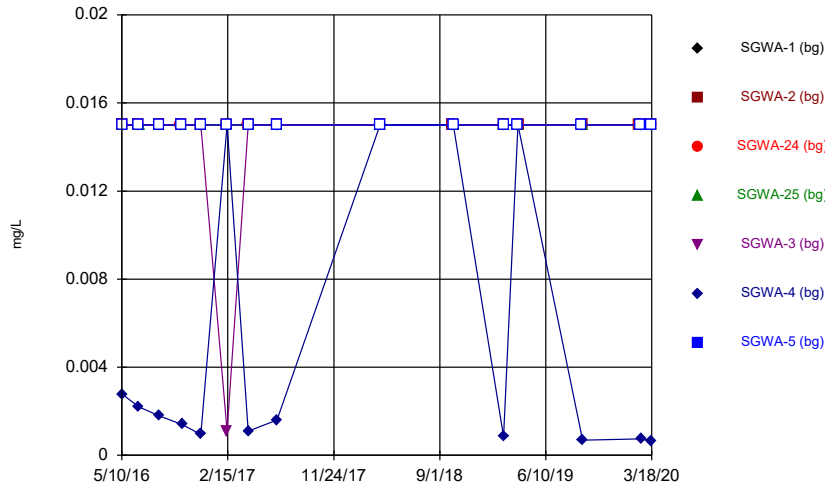
Constituent: Mercury Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



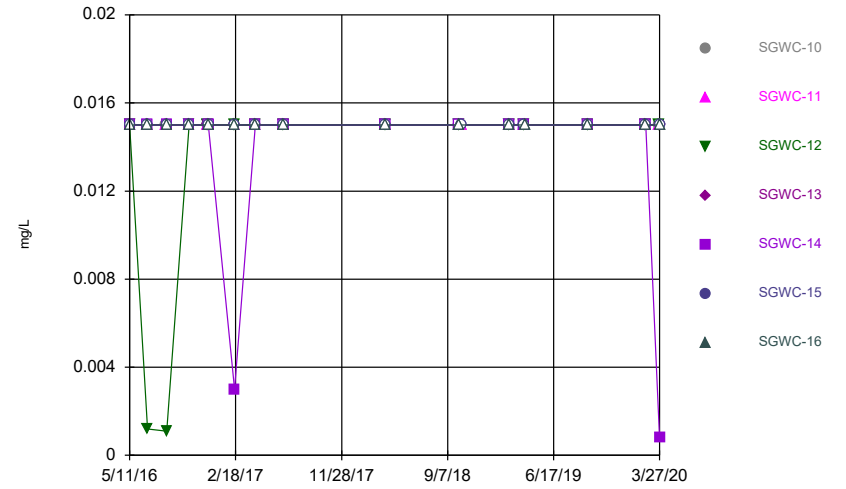
Constituent: Mercury Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



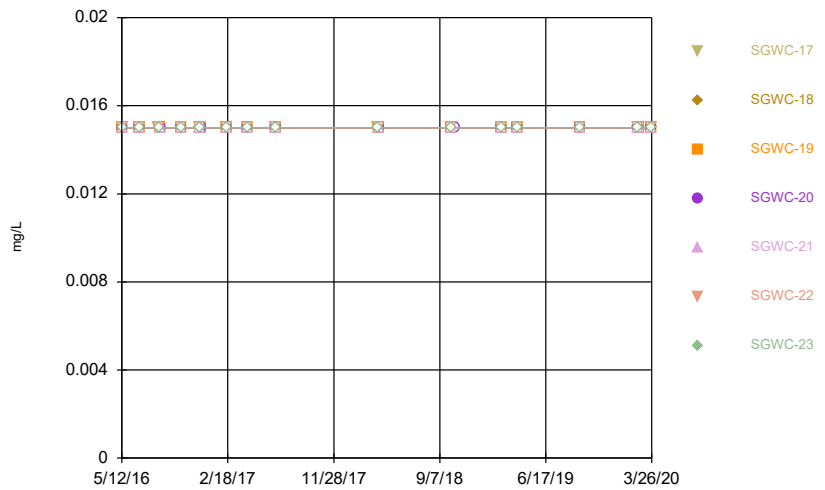
Constituent: Molybdenum Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



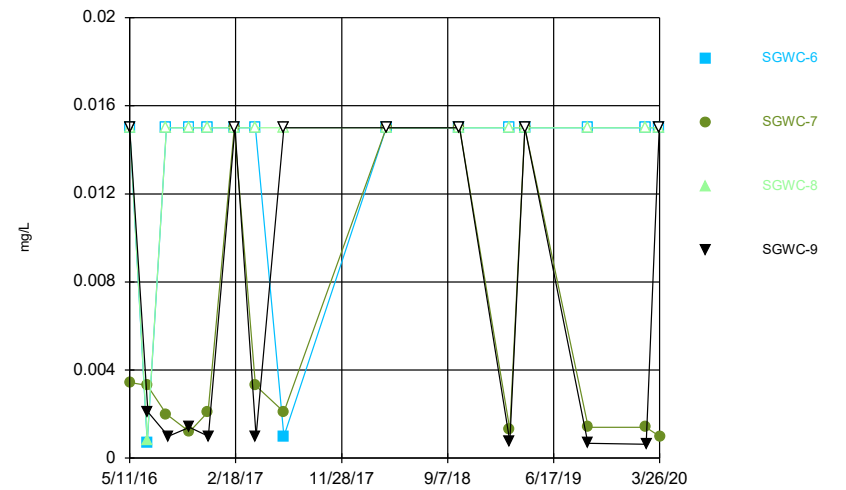
Constituent: Molybdenum Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



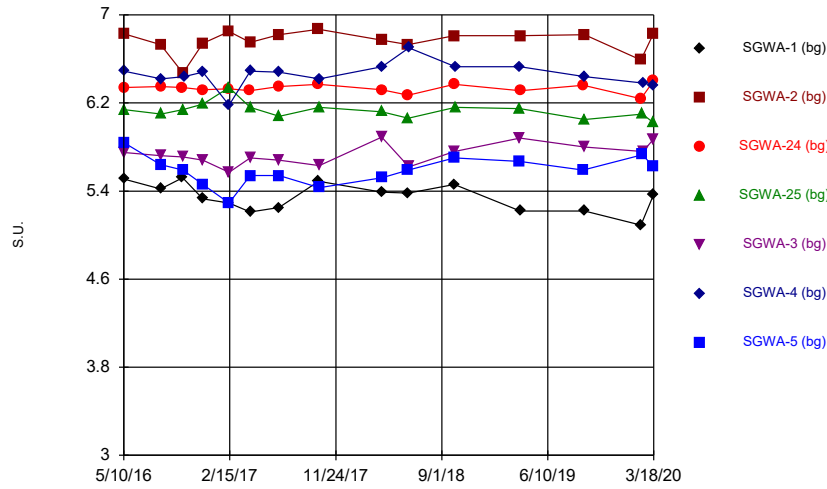
Constituent: Molybdenum Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



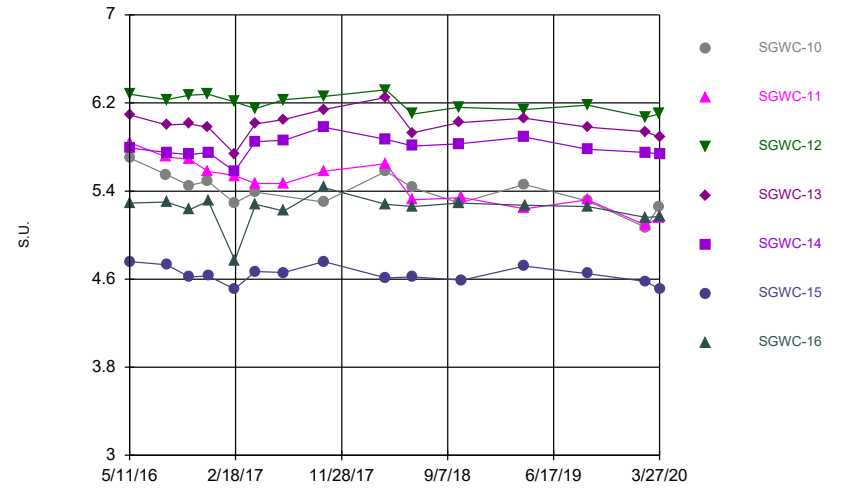
Constituent: Molybdenum Analysis Run 6/16/2020 2:47 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



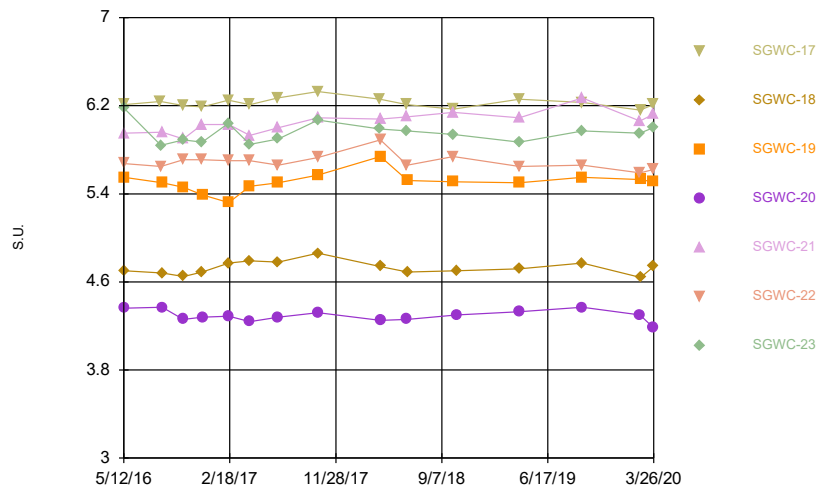
Constituent: pH Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



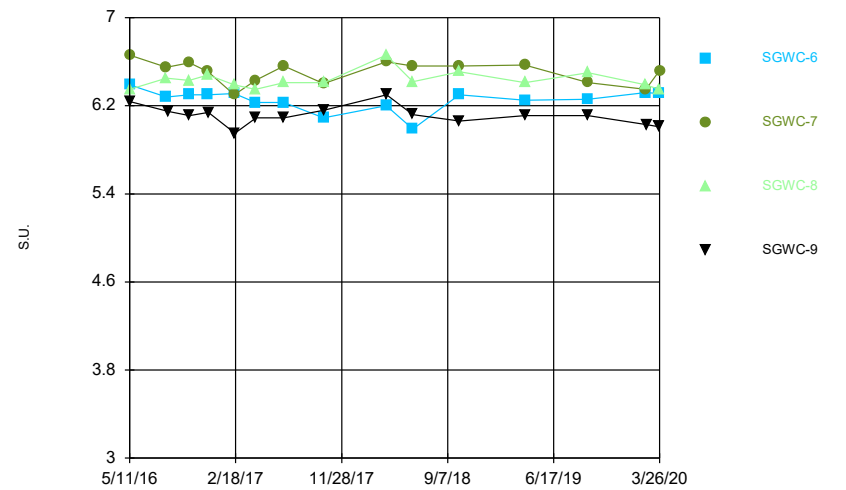
Constituent: pH Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



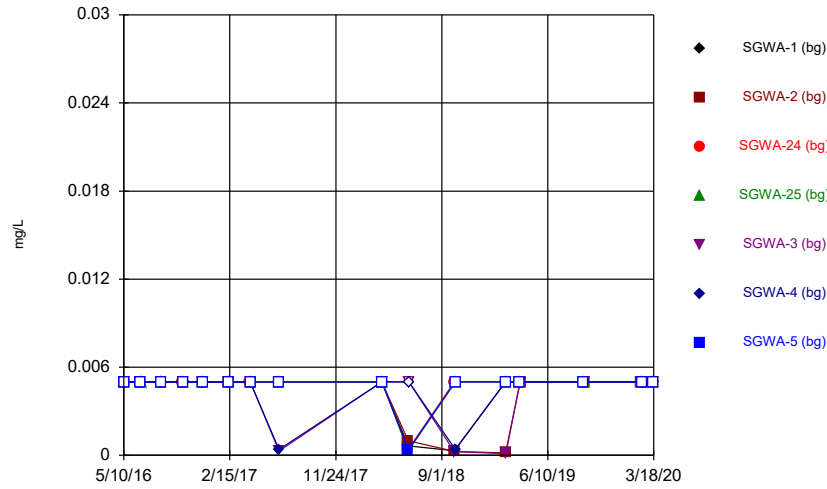
Constituent: pH Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



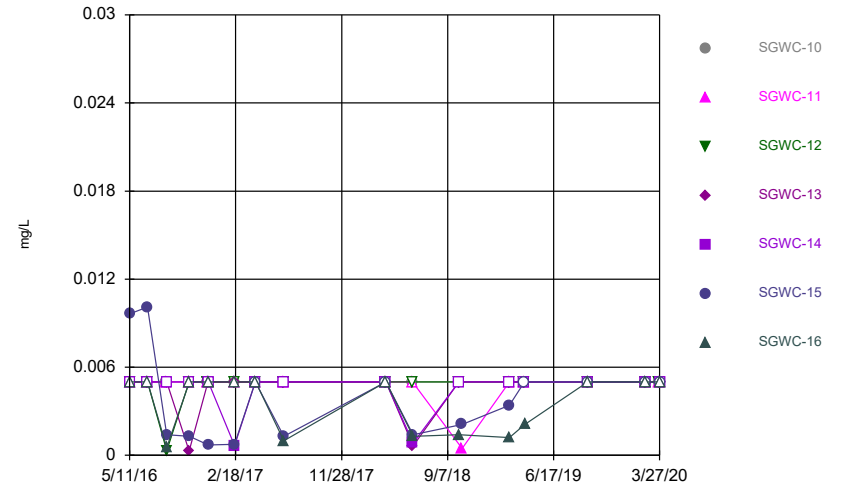
Constituent: pH Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



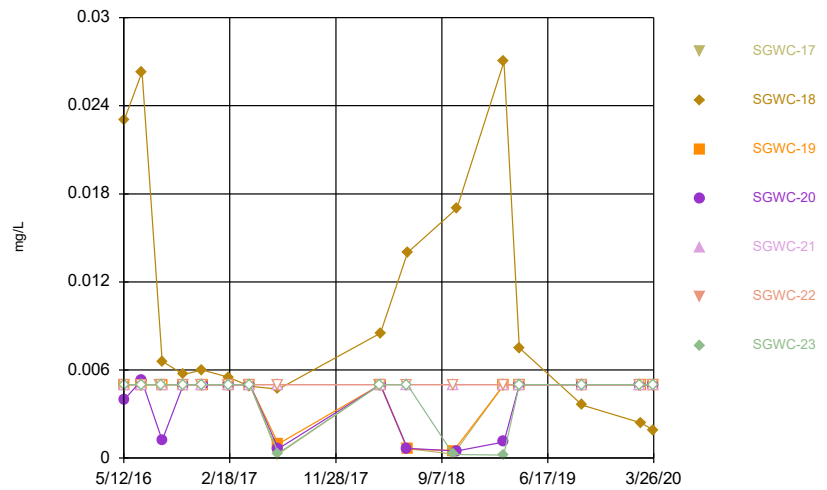
Constituent: Selenium Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



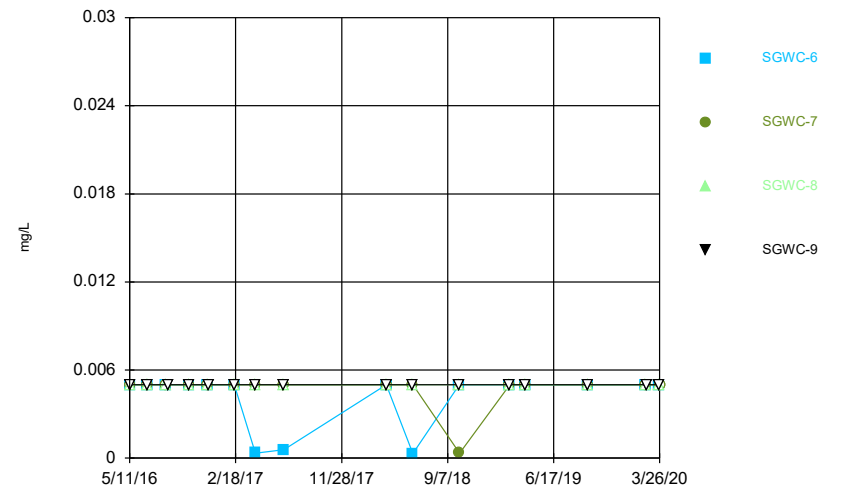
Constituent: Selenium Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



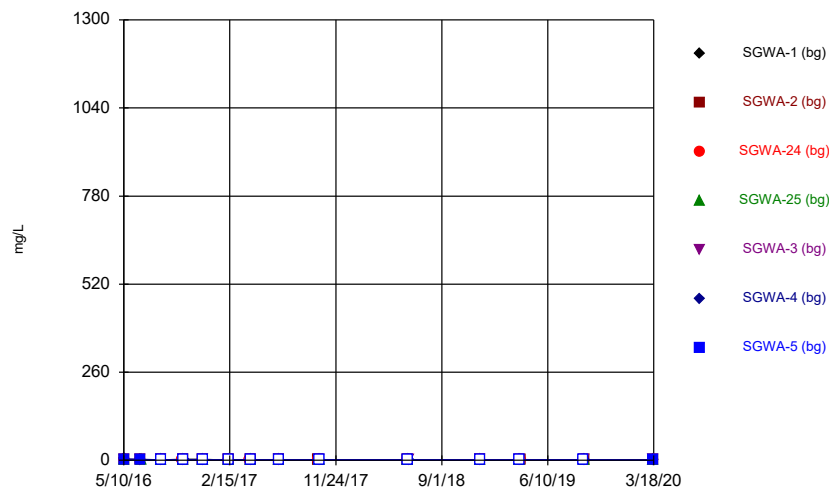
Constituent: Selenium Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



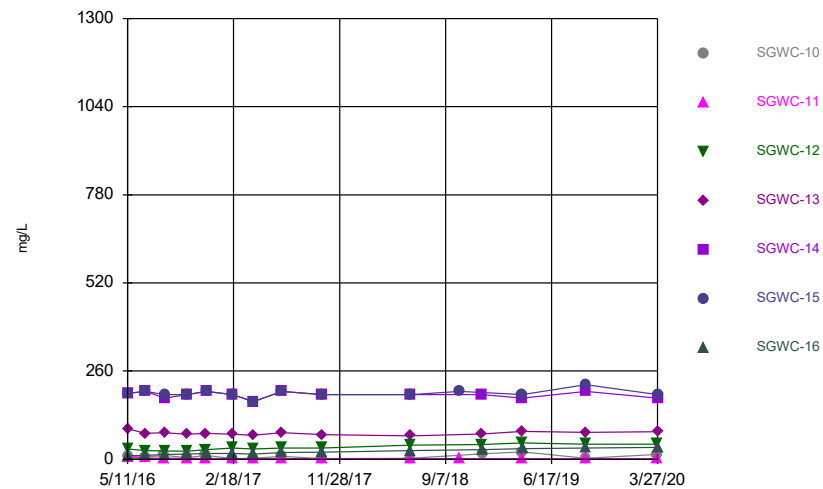
Constituent: Selenium Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



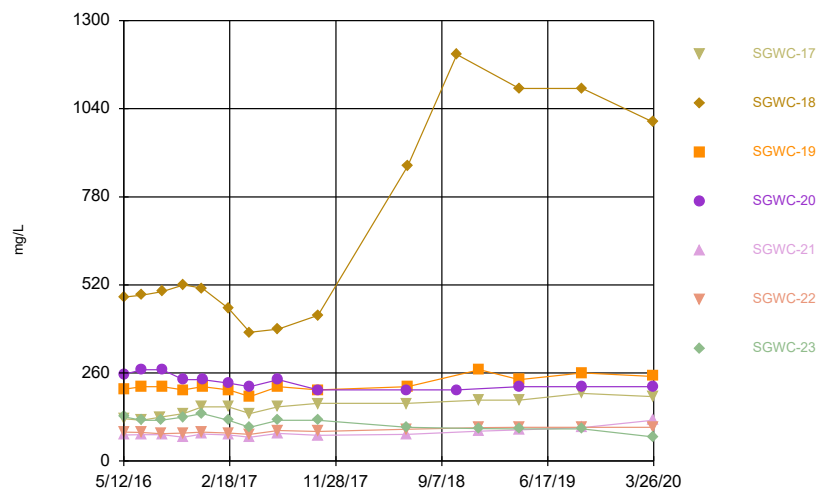
Constituent: Sulfate, total Analysis Run 6/17/2020 3:24 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



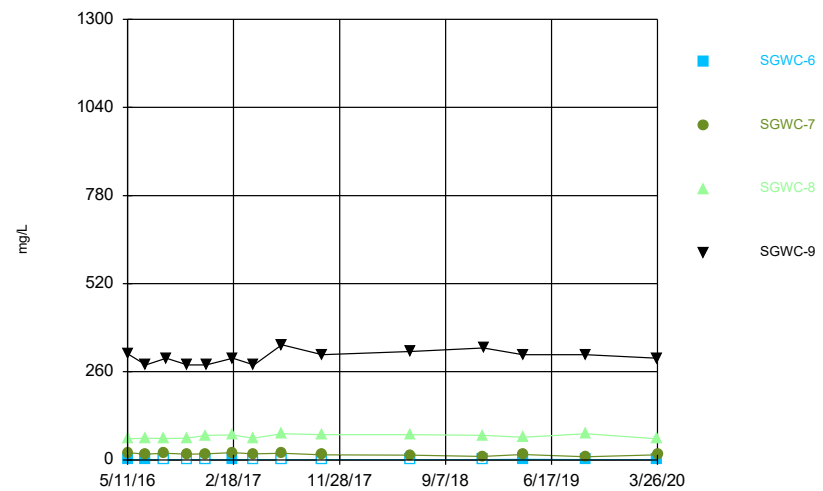
Constituent: Sulfate, total Analysis Run 6/17/2020 3:25 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



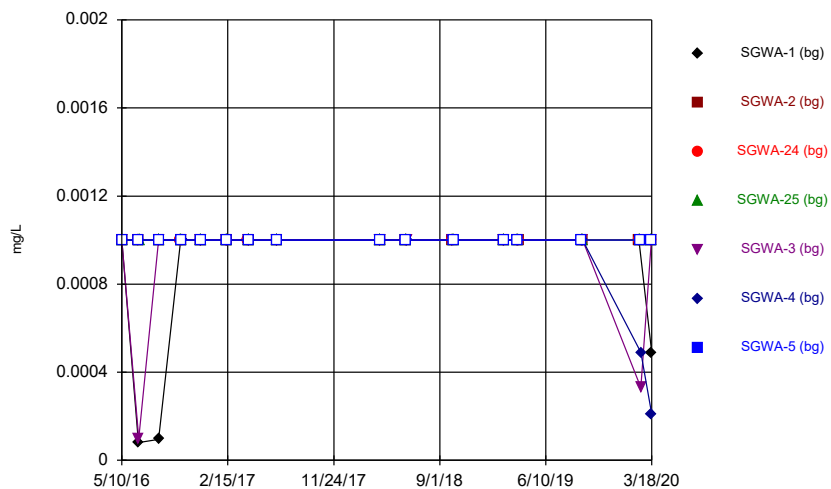
Constituent: Sulfate, total Analysis Run 6/17/2020 3:26 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



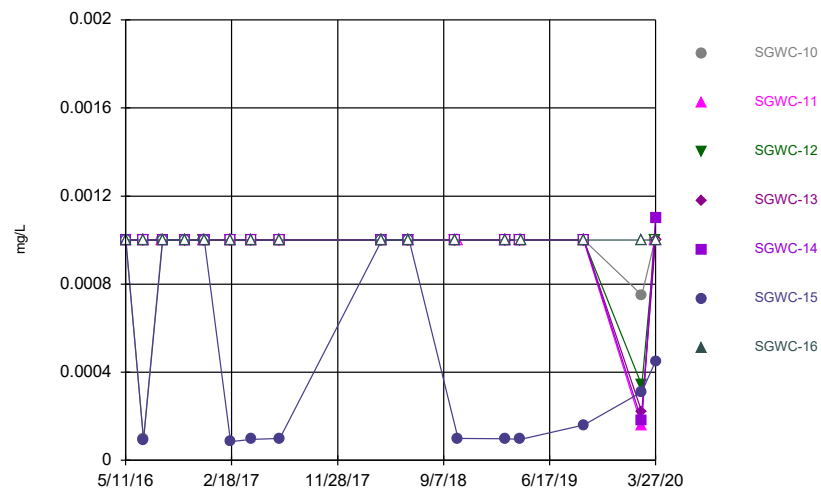
Constituent: Sulfate, total Analysis Run 6/17/2020 3:26 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



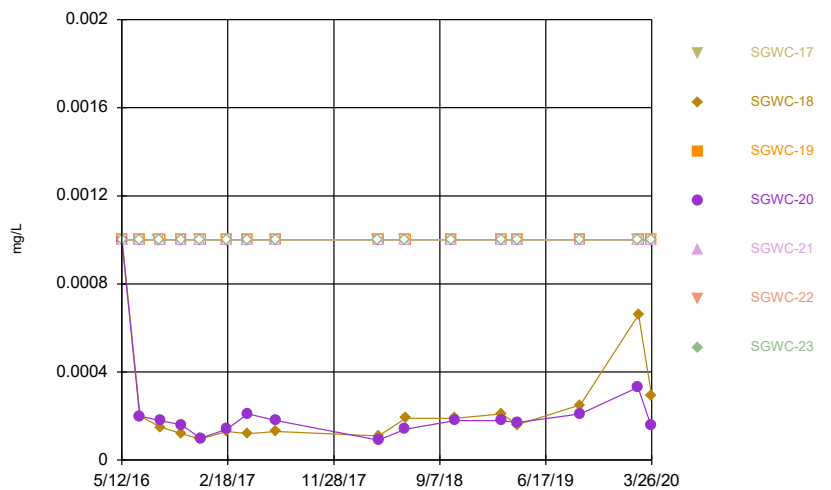
Constituent: Thallium Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



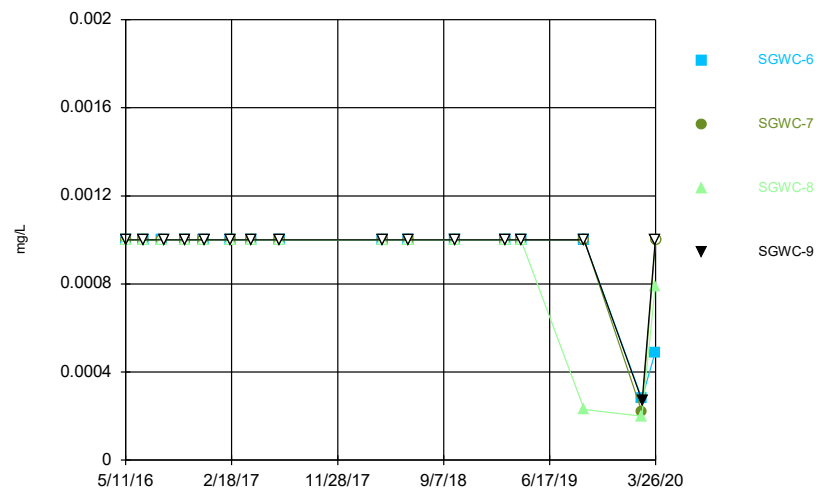
Constituent: Thallium Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



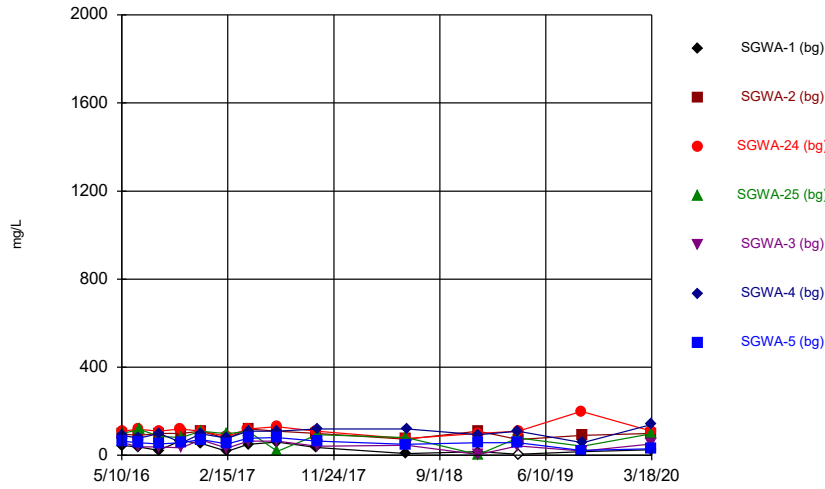
Constituent: Thallium Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



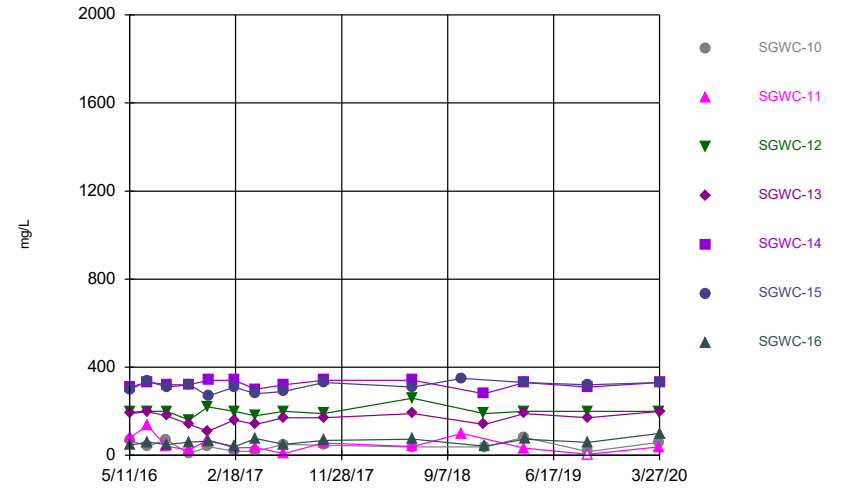
Constituent: Thallium Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



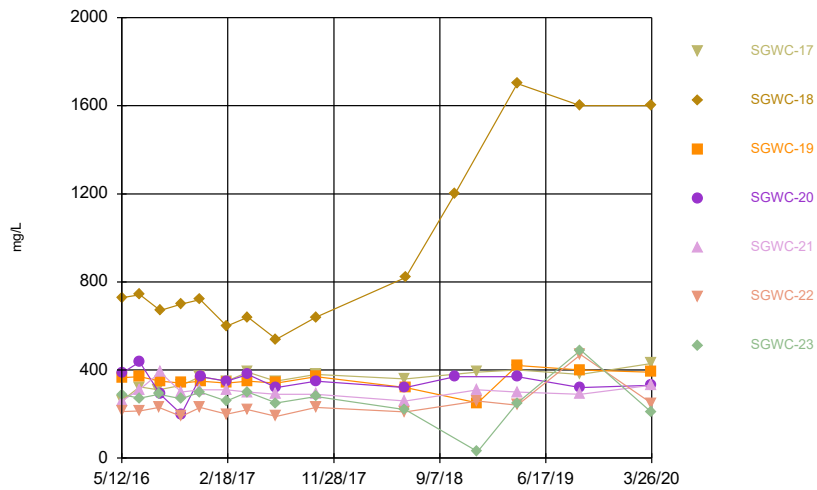
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Time Series



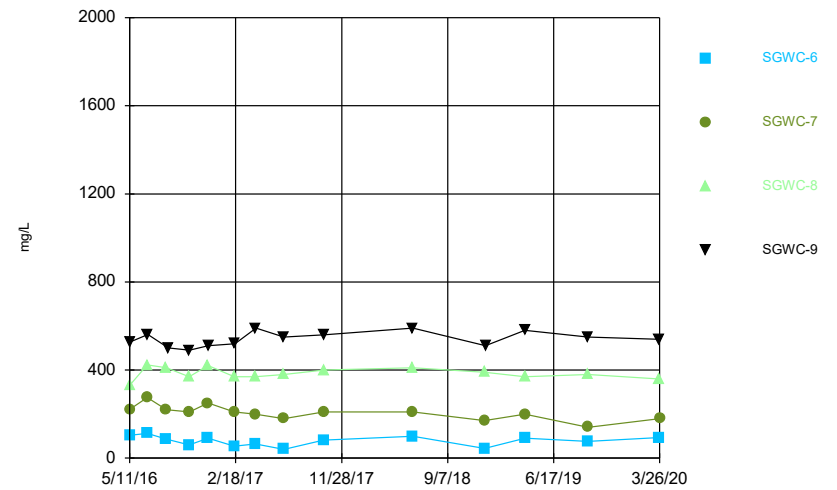
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:48 PM
Plant Scherer Client: Southern Company Data: Scherer AP

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

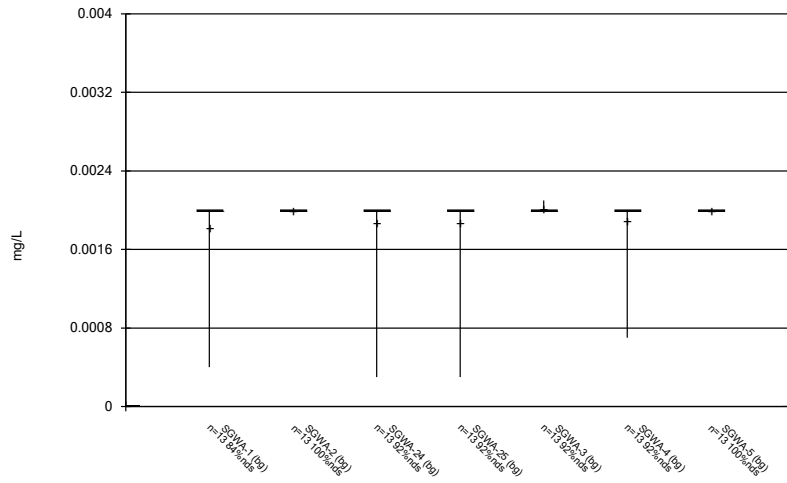
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/16/2020 2:48 PM

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		

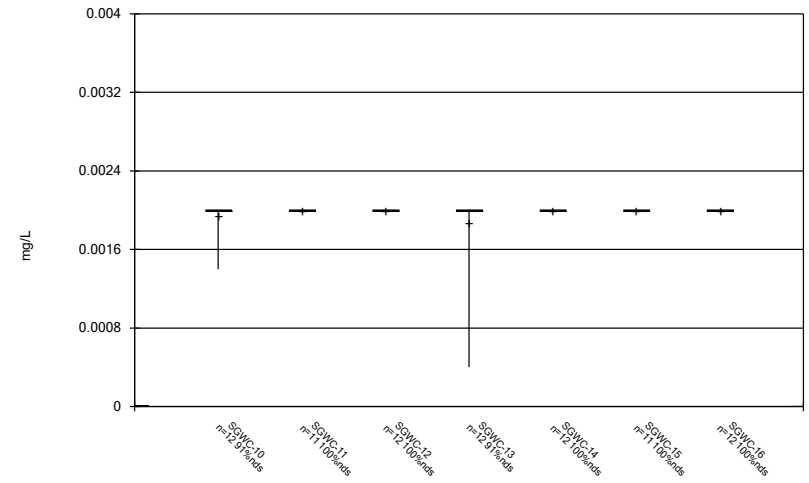
FIGURE B.

Box & Whiskers Plot



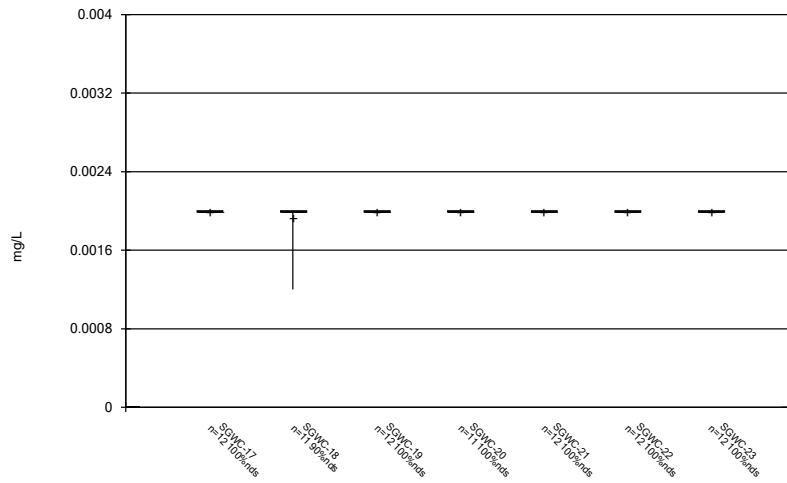
Constituent: Antimony Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



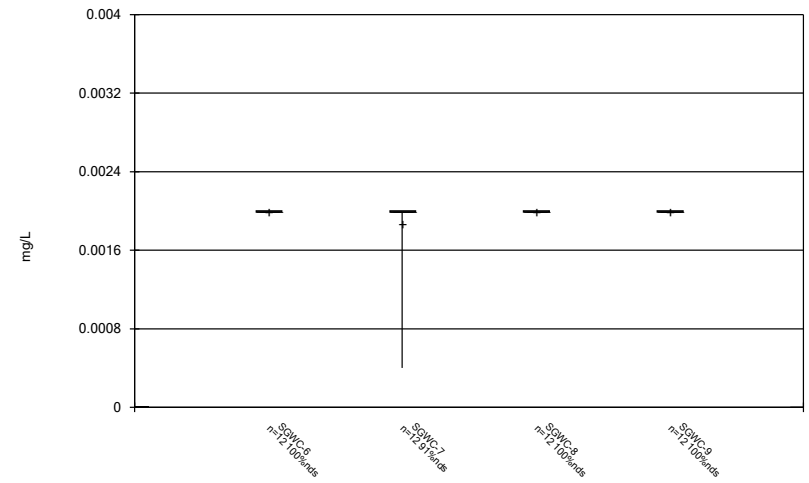
Constituent: Antimony Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



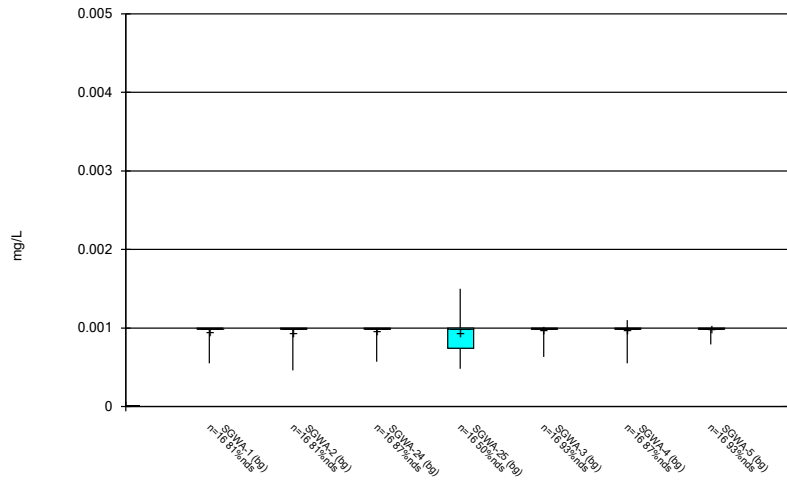
Constituent: Antimony Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



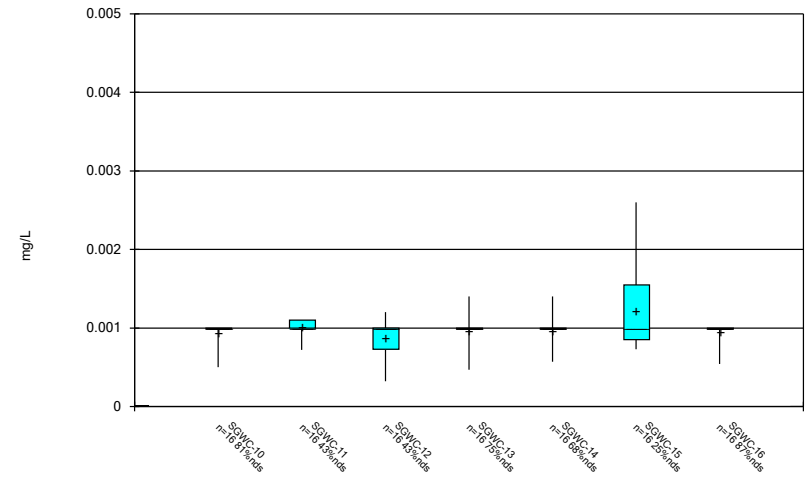
Constituent: Antimony Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



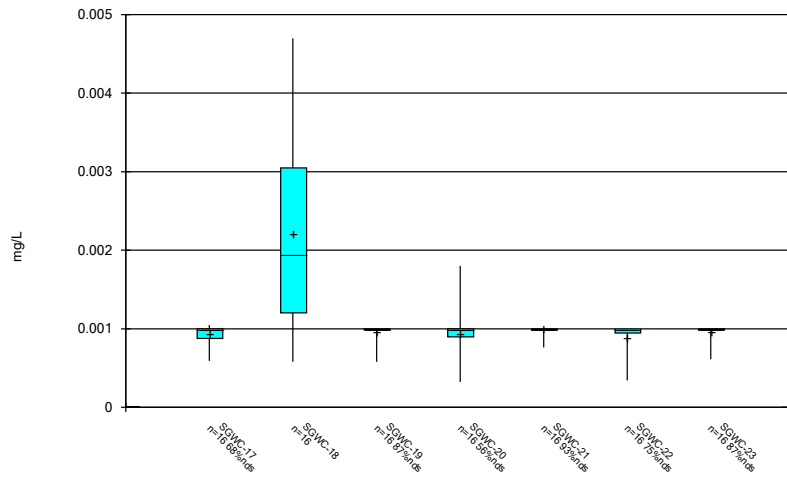
Constituent: Arsenic Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



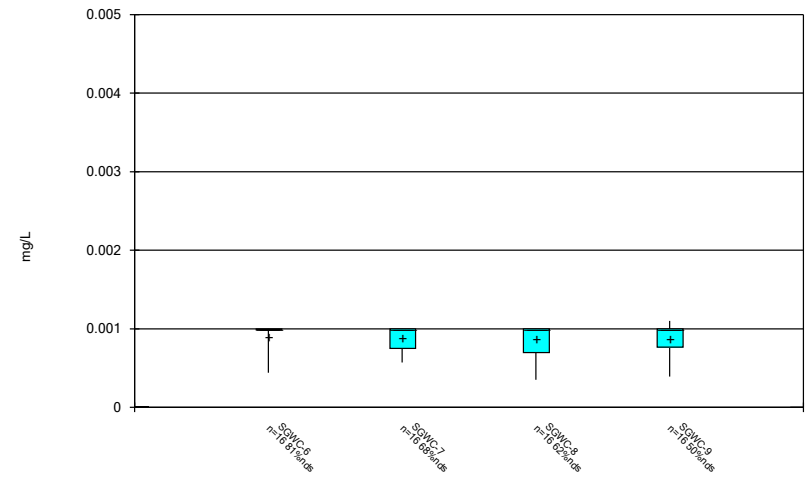
Constituent: Arsenic Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



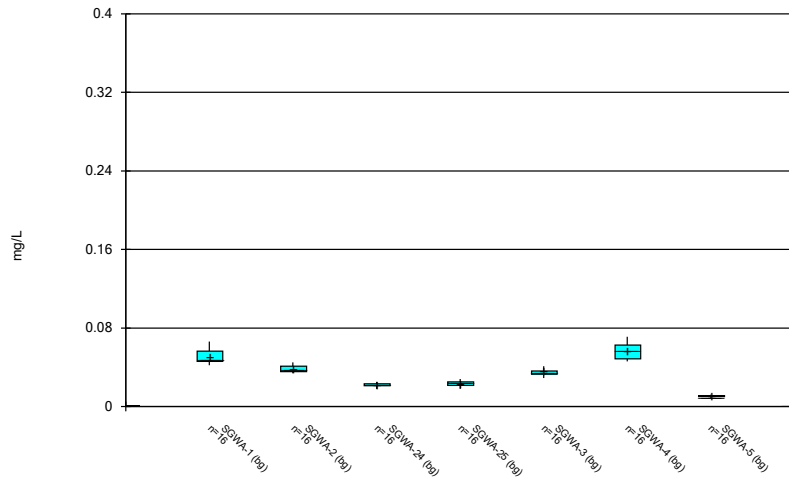
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



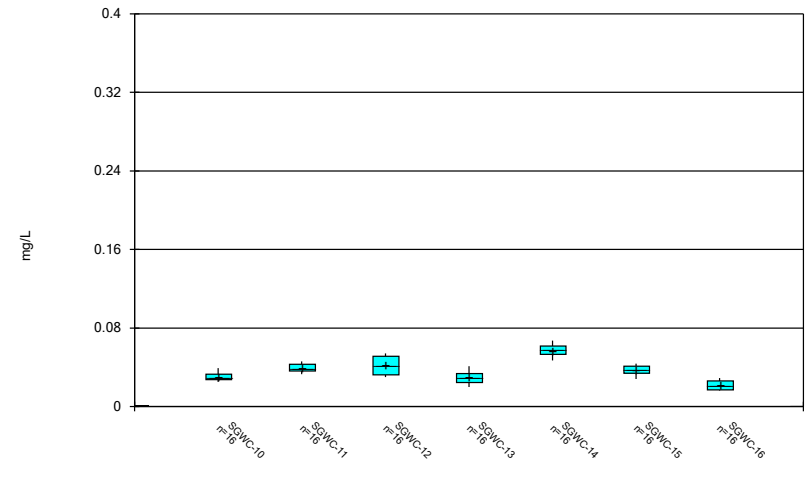
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



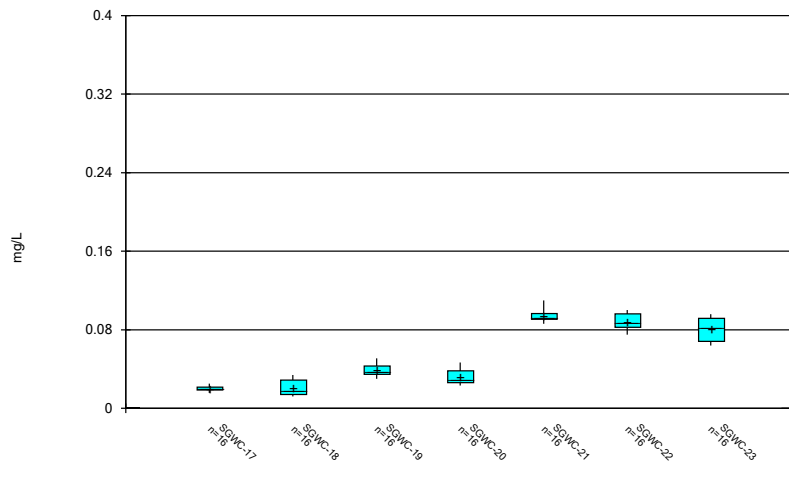
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



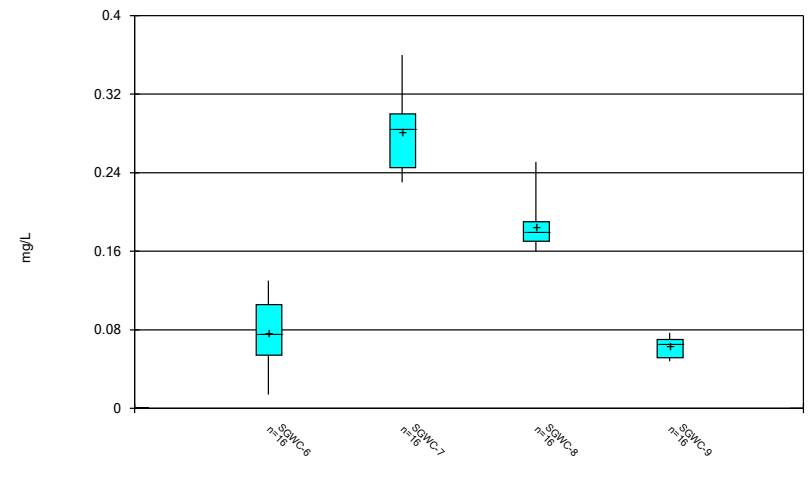
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



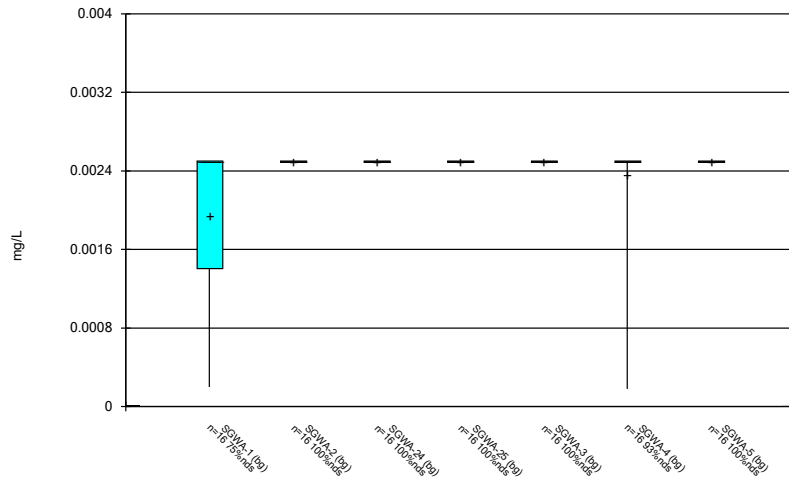
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



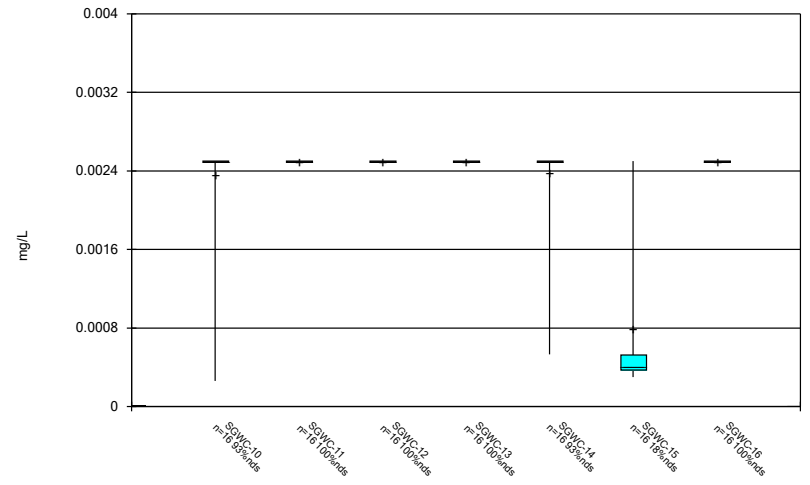
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



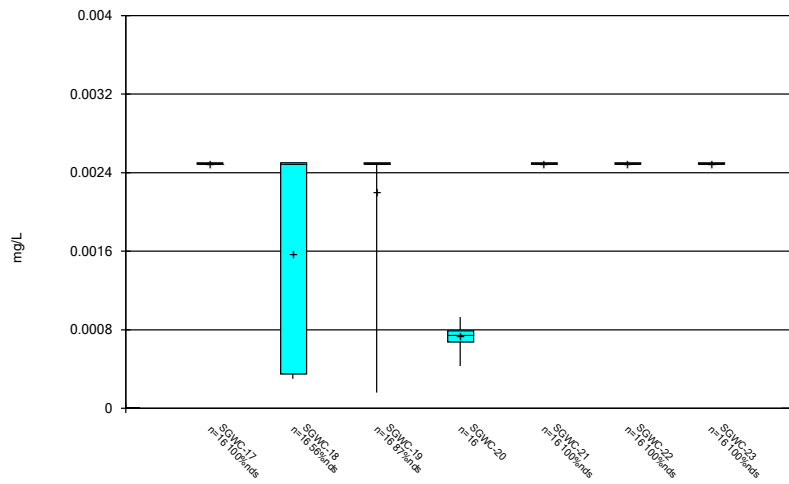
Constituent: Beryllium Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



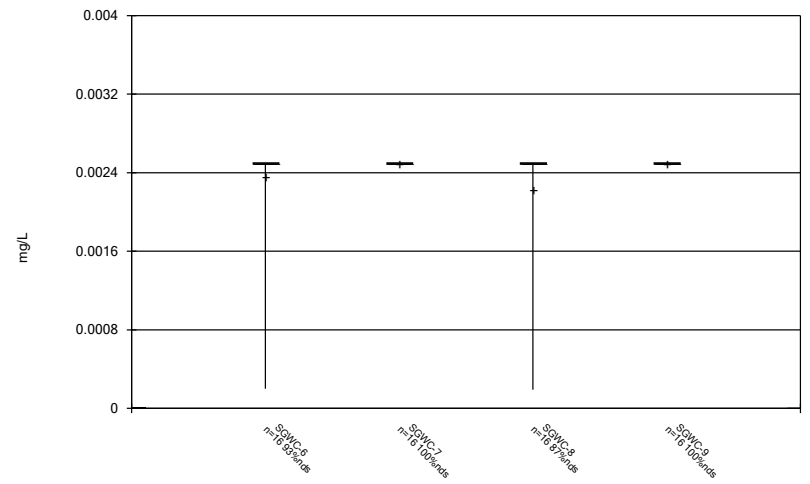
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



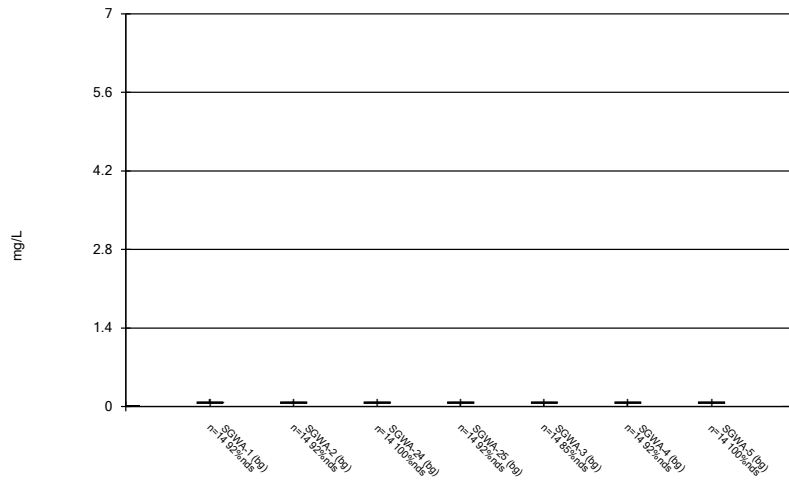
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



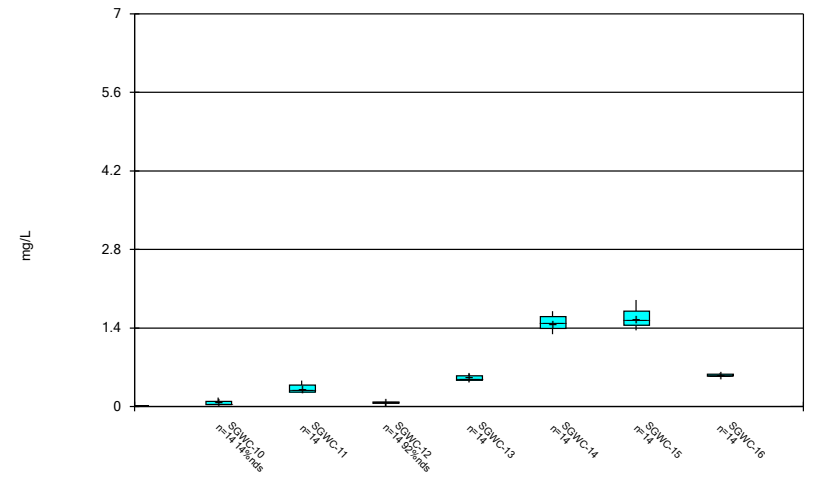
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



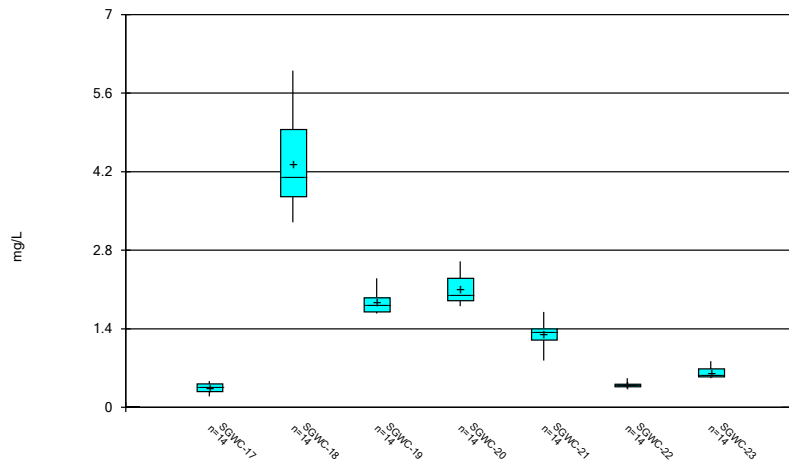
Constituent: Boron, total Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



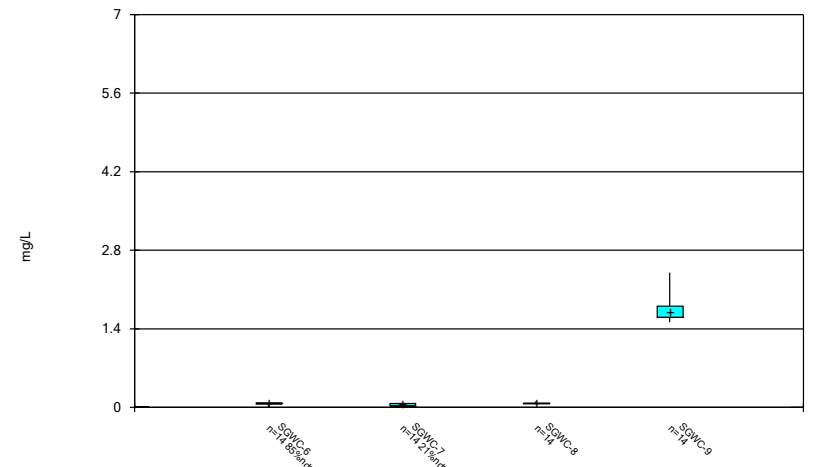
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



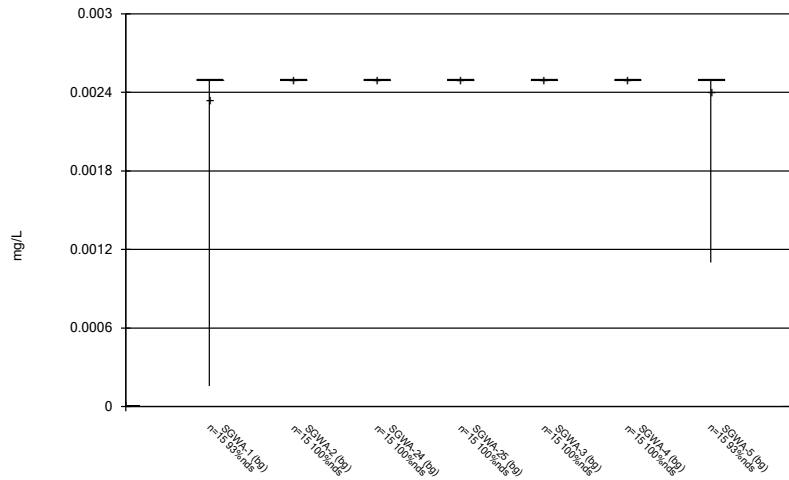
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



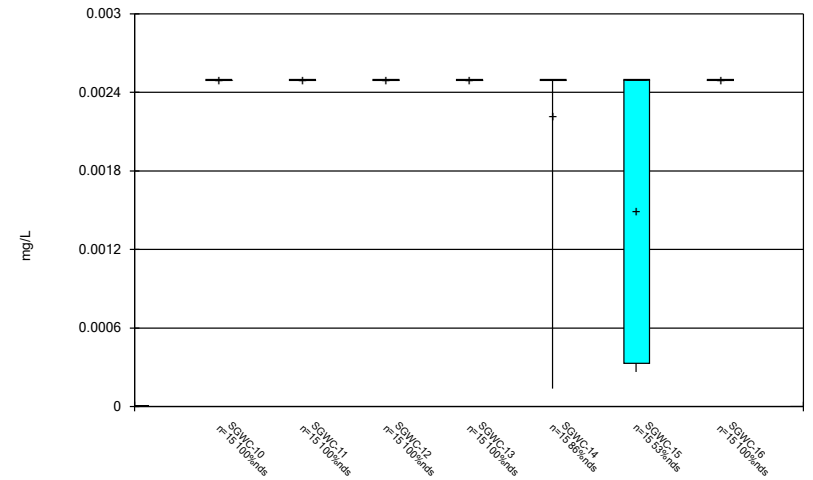
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



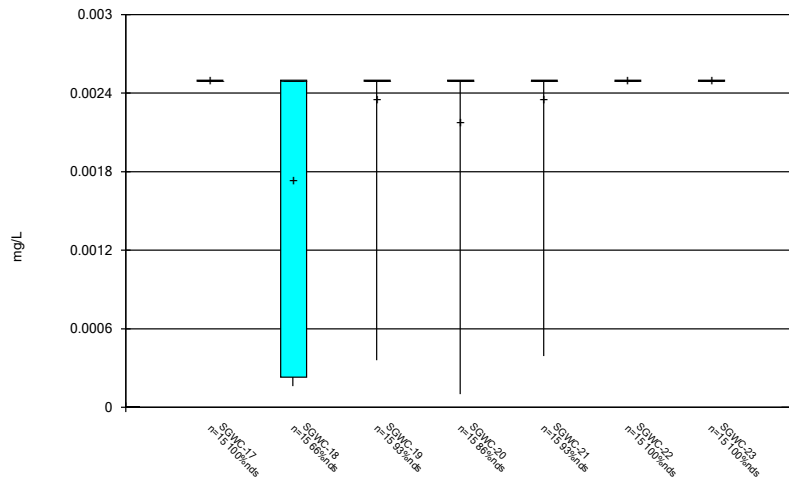
Constituent: Cadmium Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



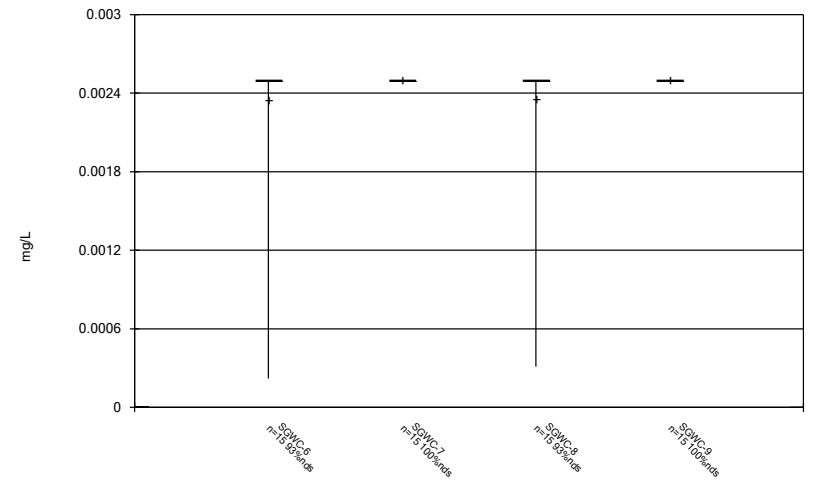
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



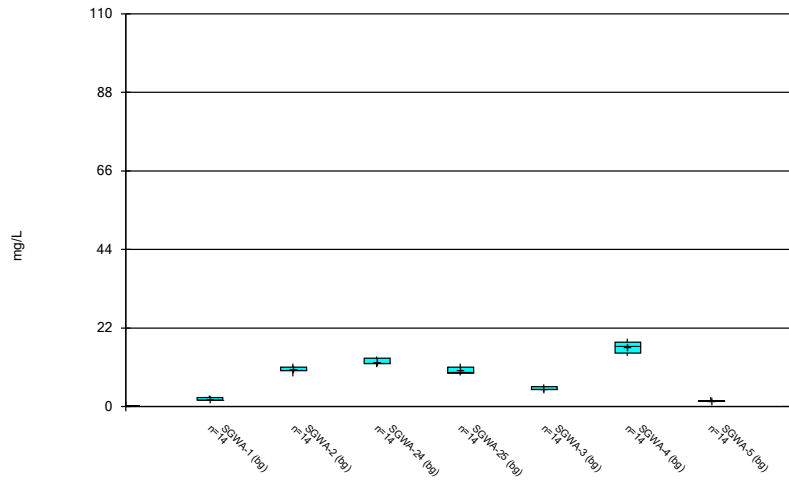
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



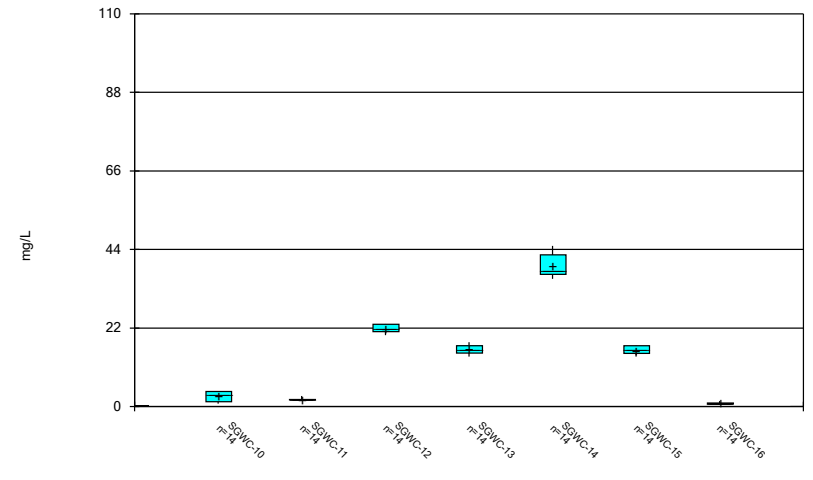
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



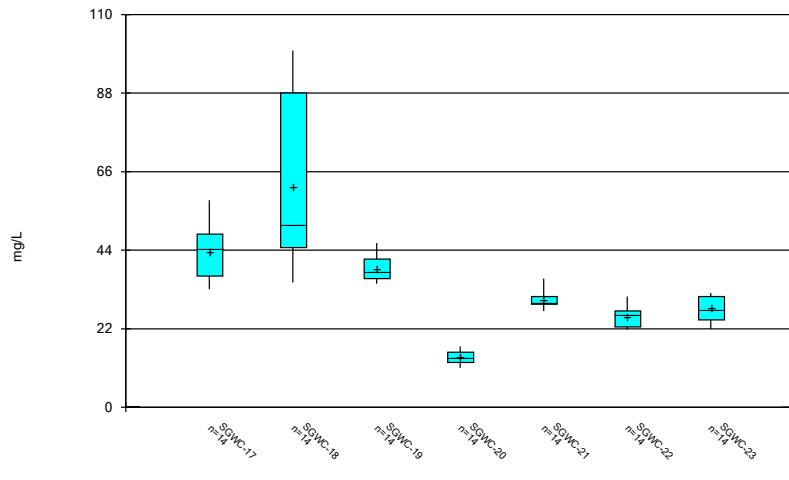
Constituent: Calcium, total Analysis Run 6/16/2020 2:49 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



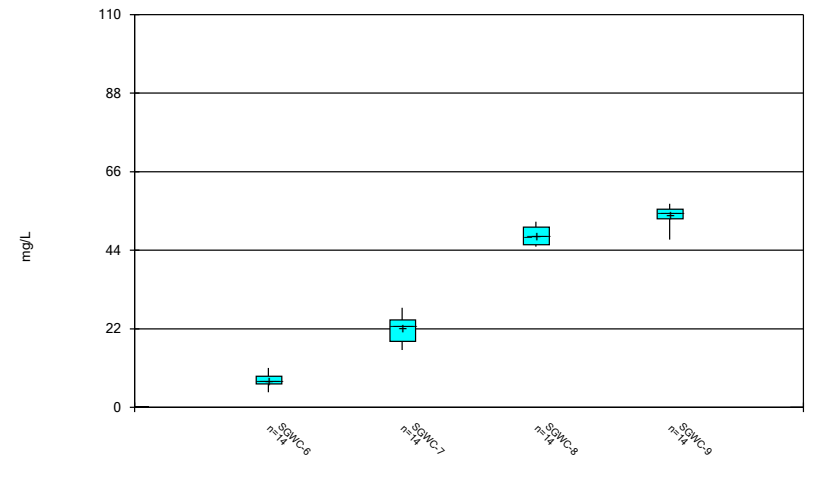
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Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



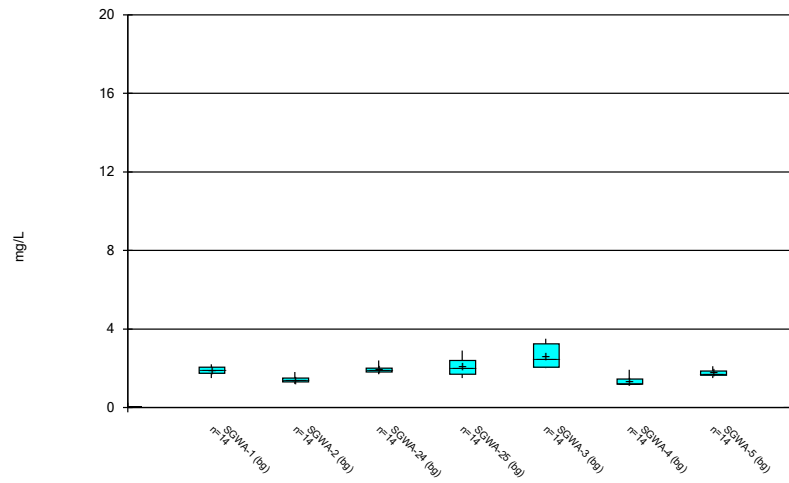
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Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



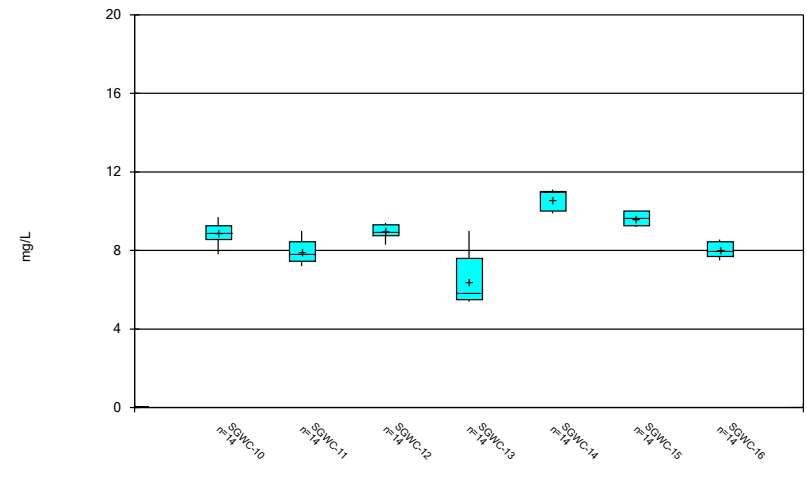
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Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



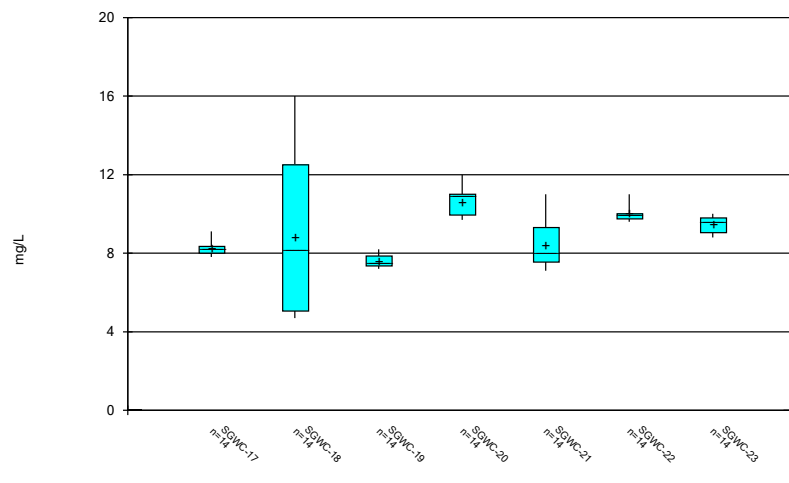
Constituent: Chloride, Total Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



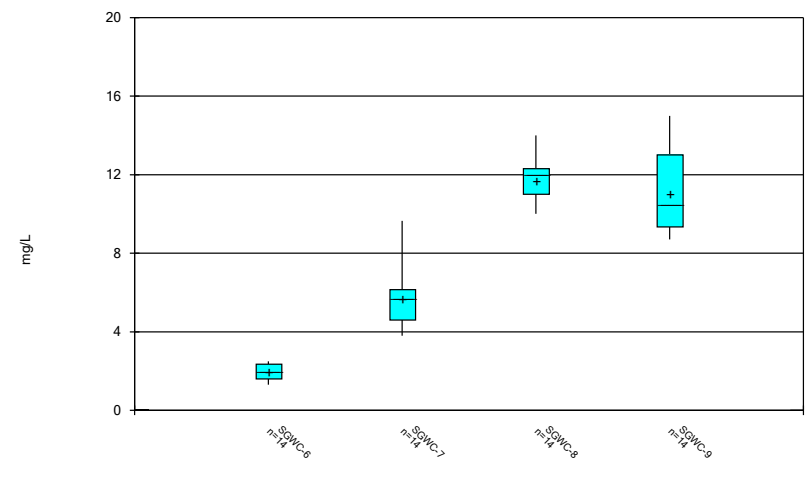
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



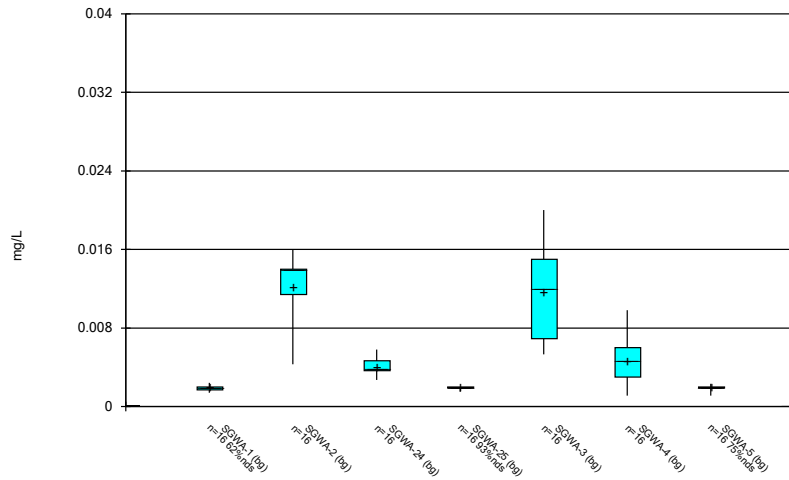
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



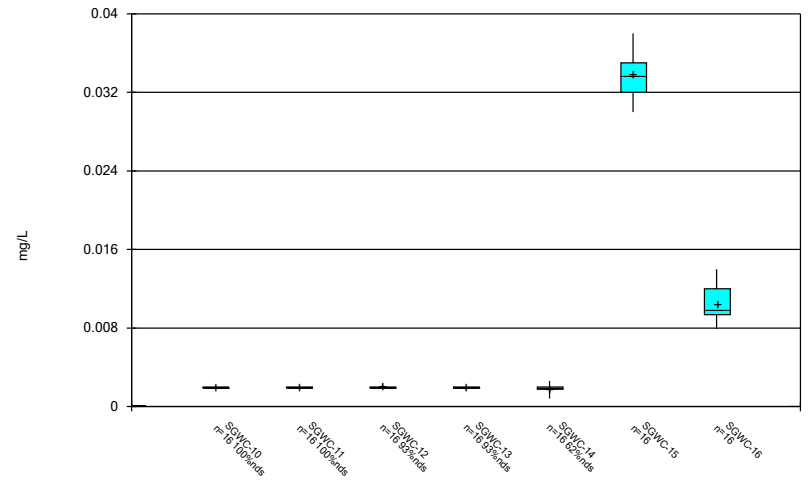
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



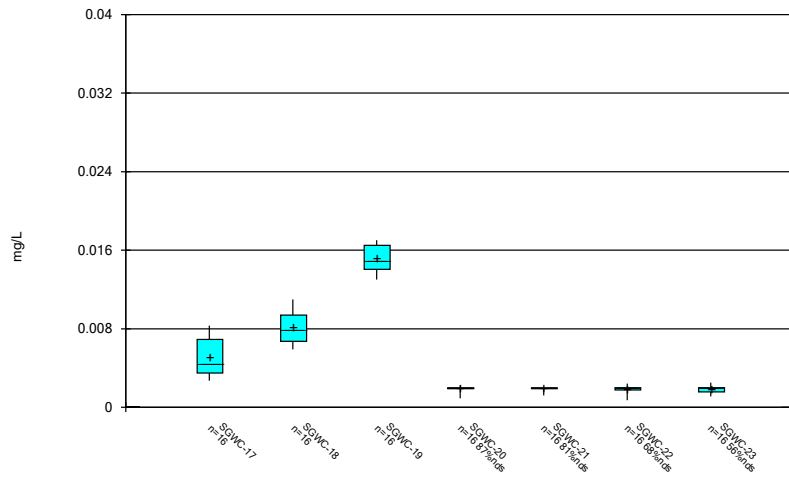
Constituent: Chromium Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



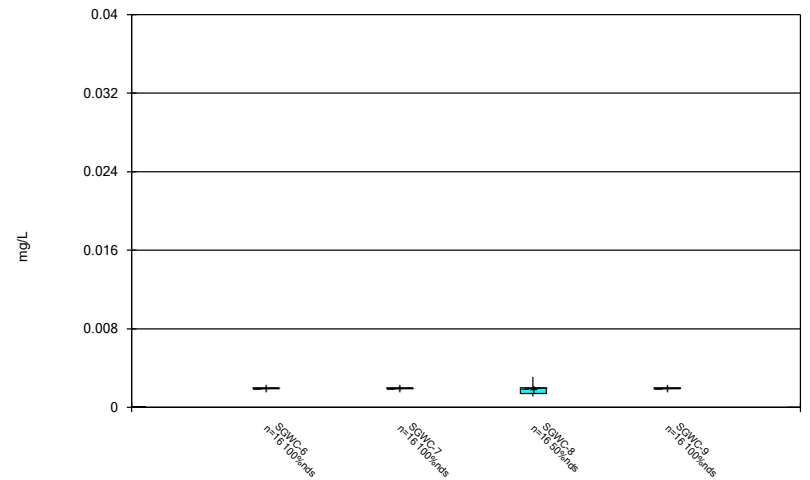
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



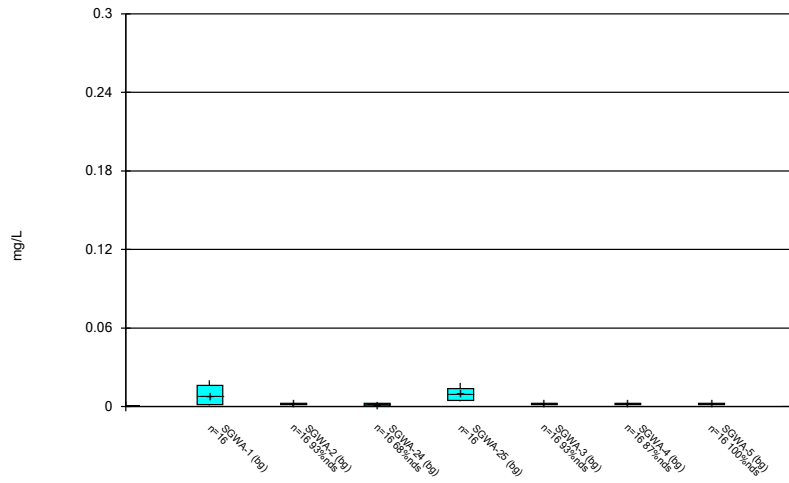
Constituent: Chromium Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



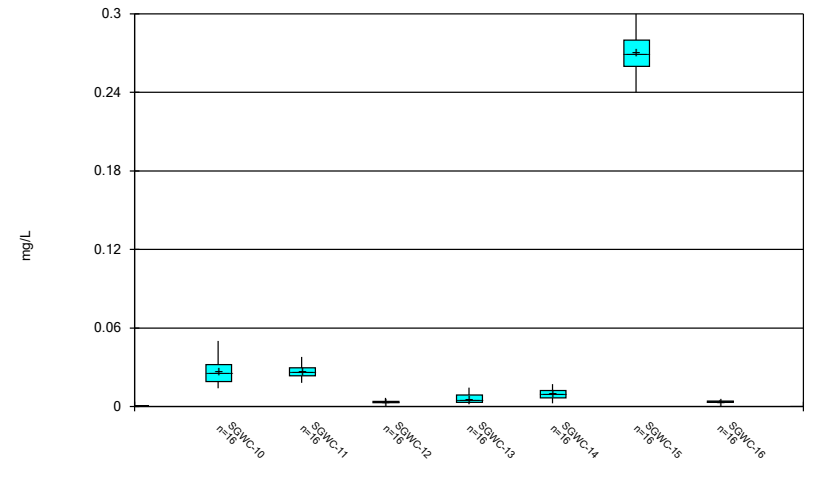
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



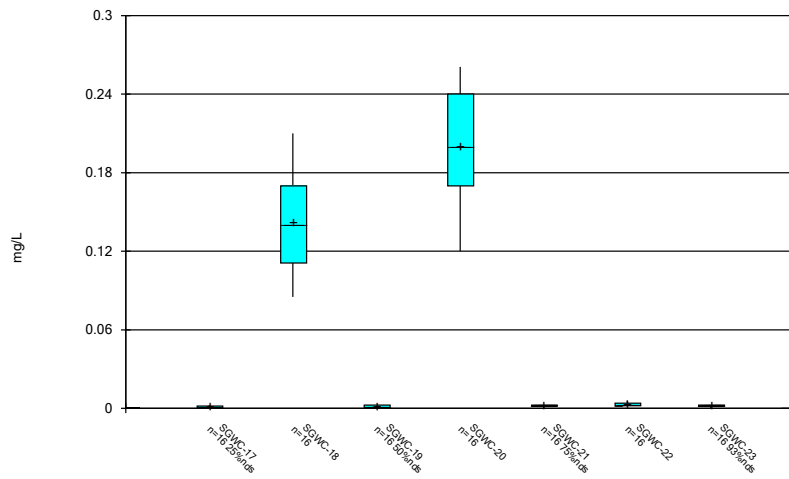
Constituent: Cobalt Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



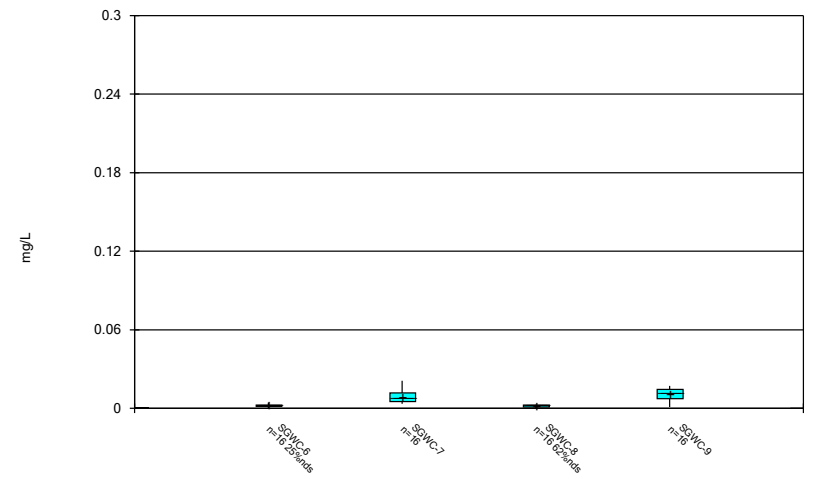
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



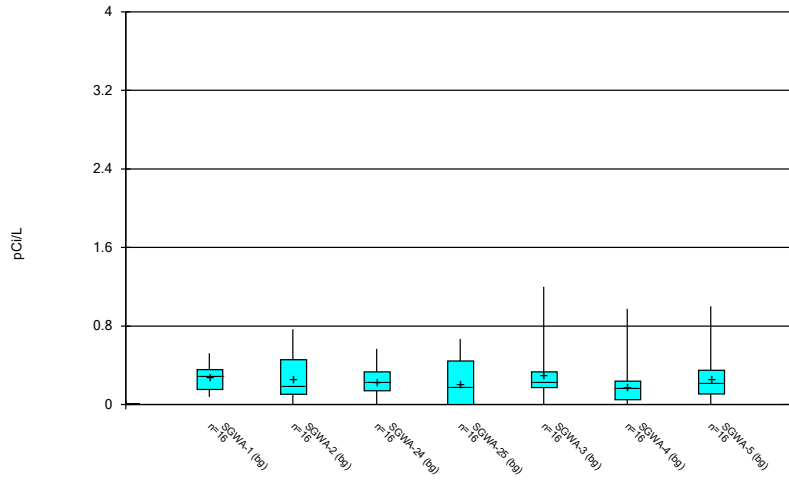
Constituent: Cobalt Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



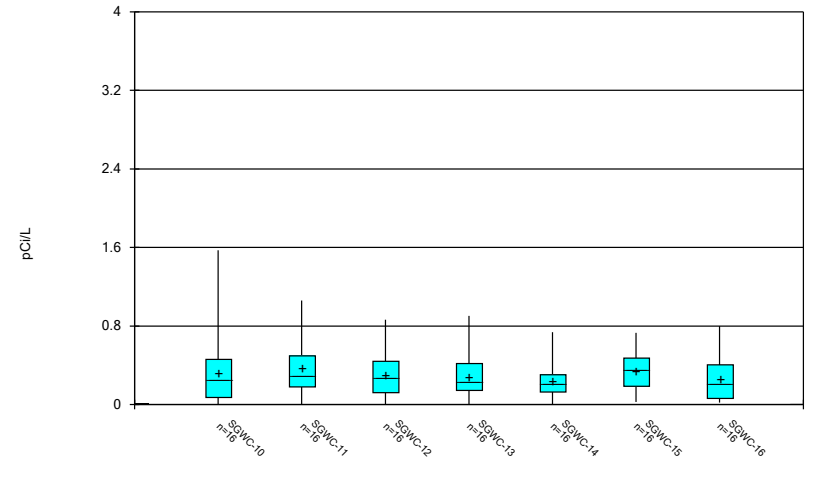
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



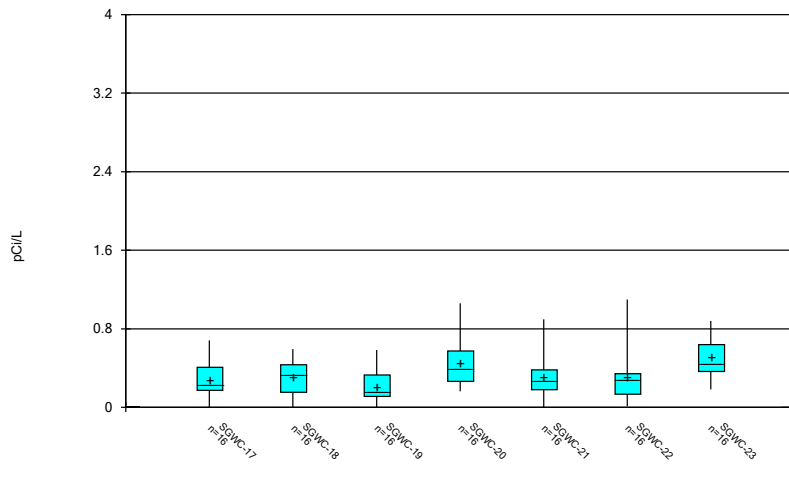
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



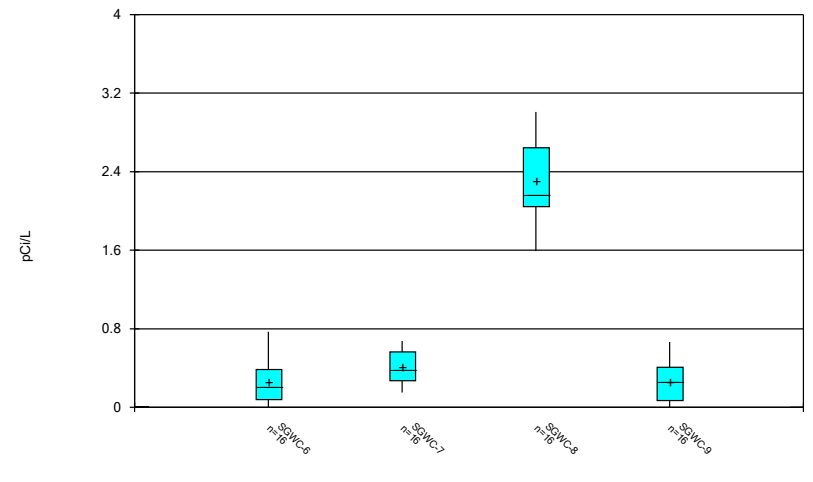
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



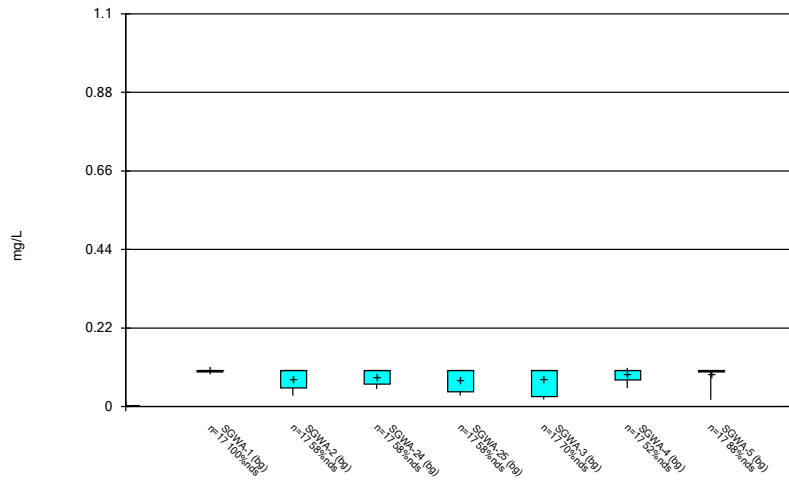
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



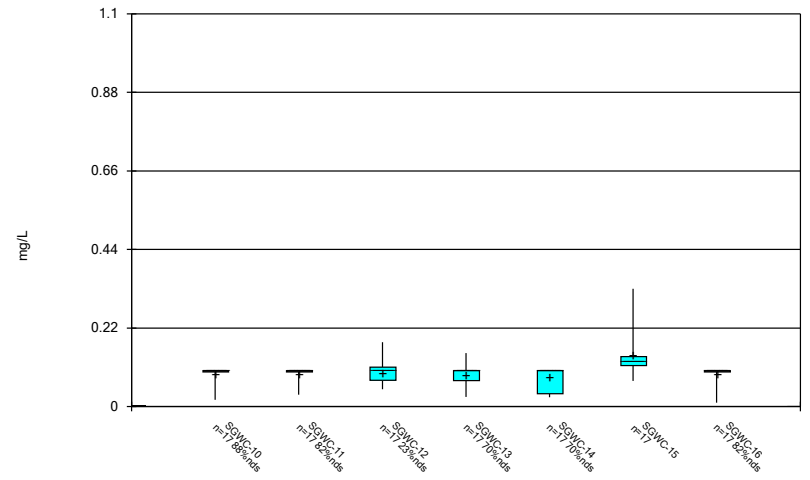
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



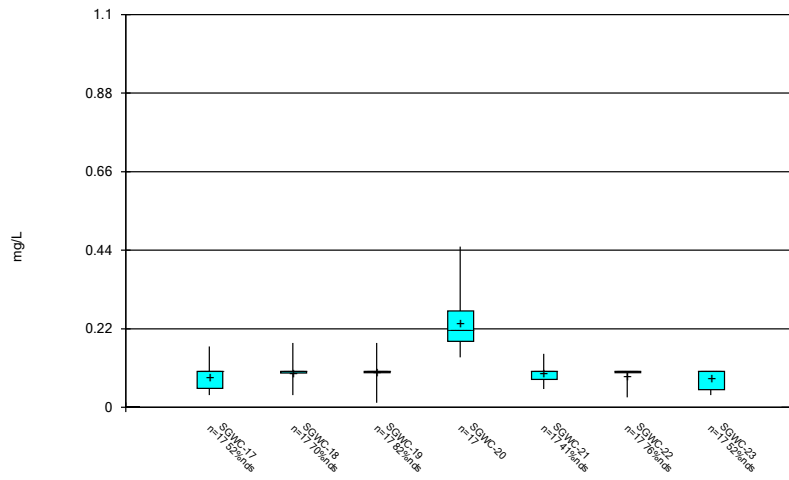
Constituent: Fluoride, total Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



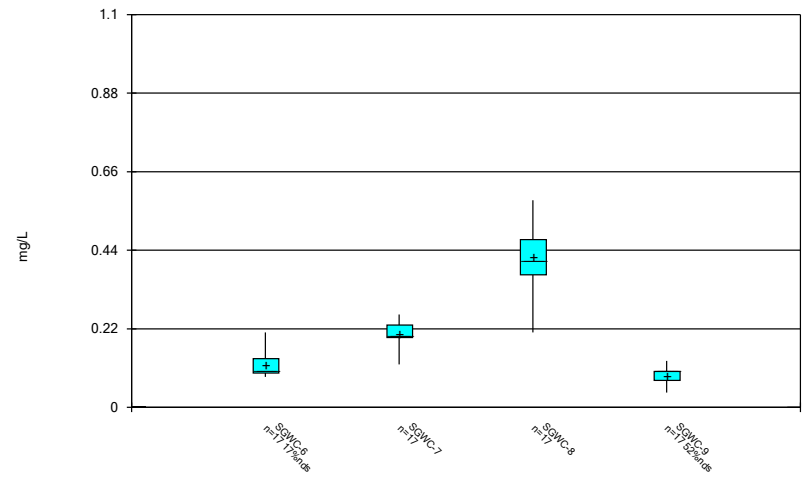
Constituent: Fluoride, total Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



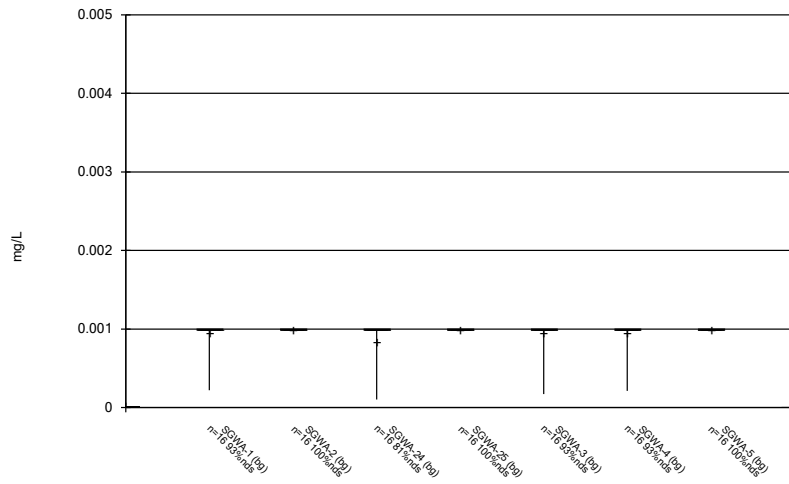
Constituent: Fluoride, total Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



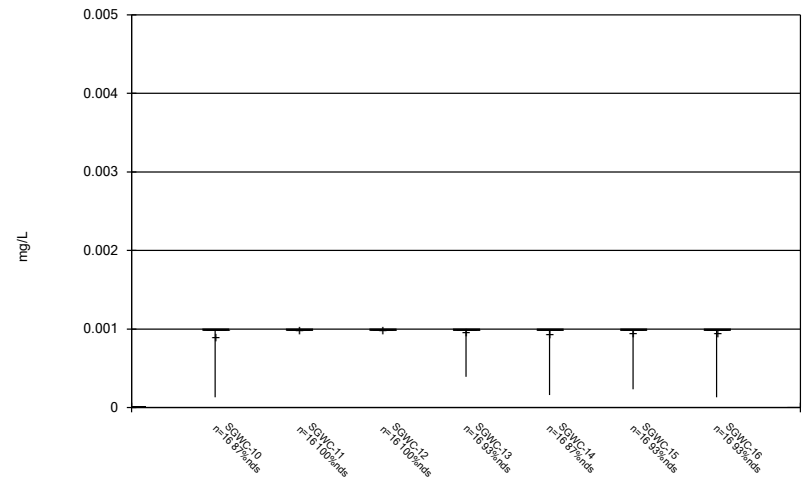
Constituent: Fluoride, total Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



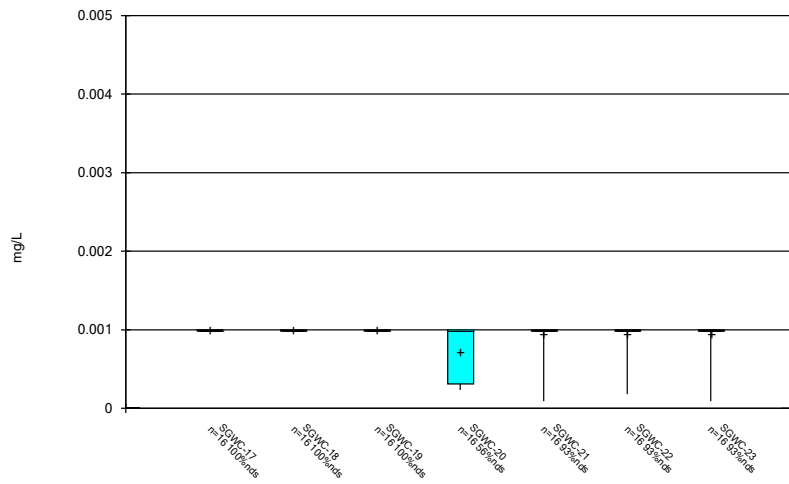
Constituent: Lead Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



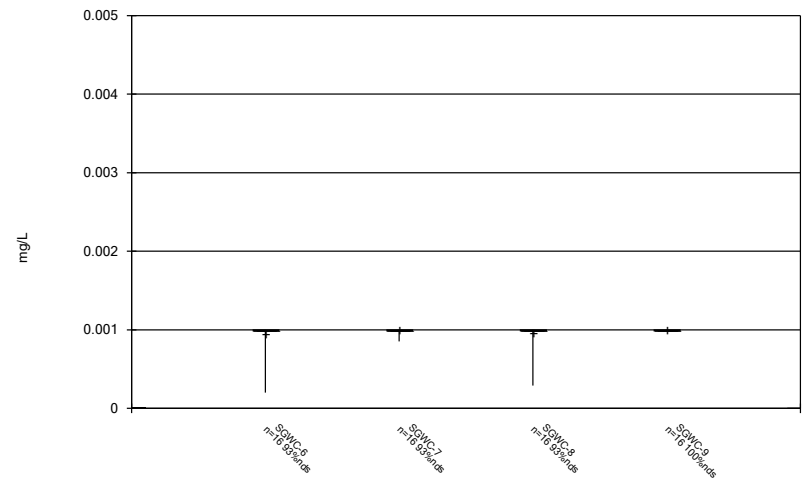
Constituent: Lead Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



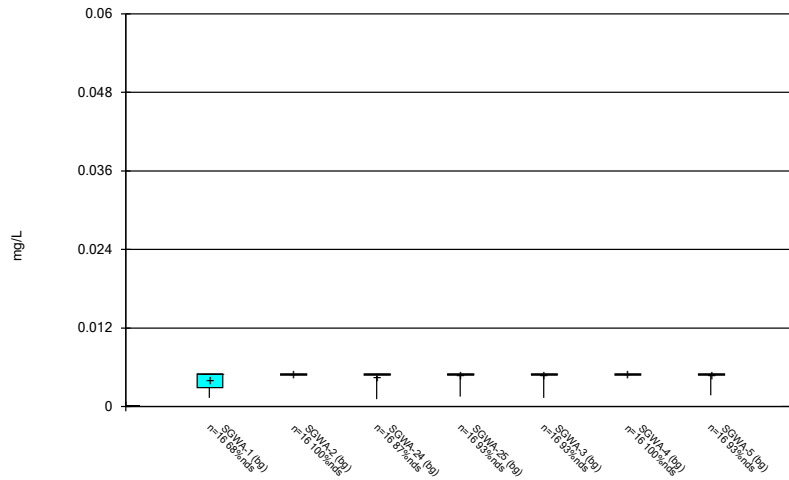
Constituent: Lead Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



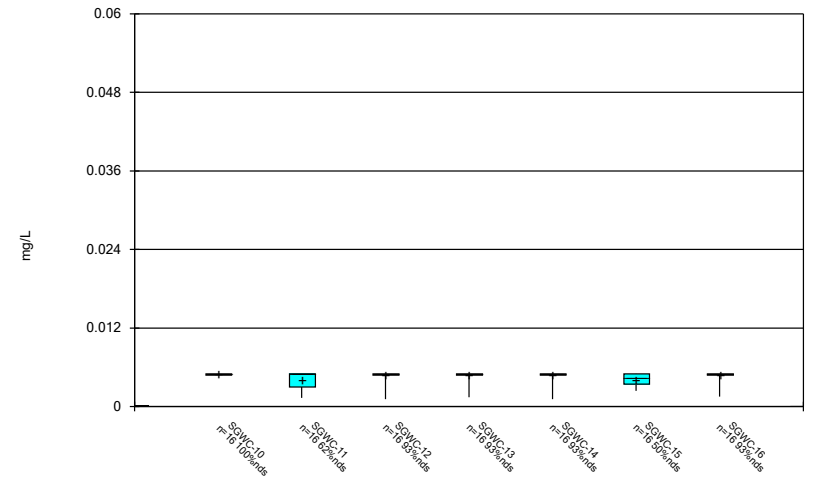
Constituent: Lead Analysis Run 6/16/2020 2:49 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



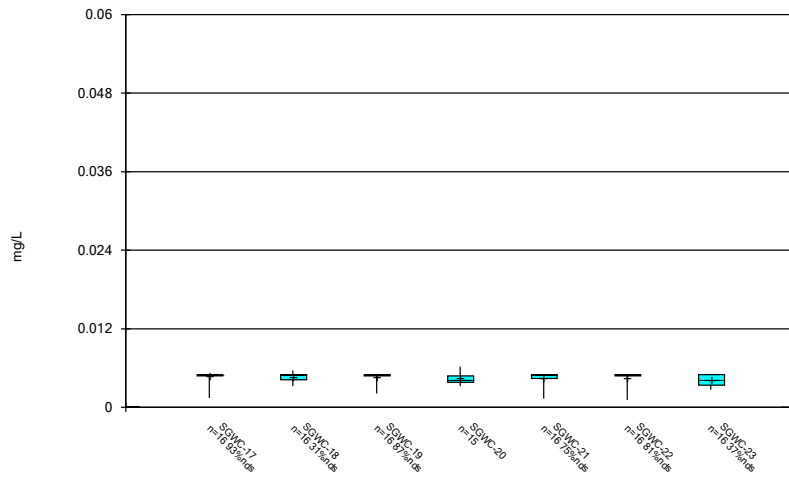
Constituent: Lithium Analysis Run 6/16/2020 2:49 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



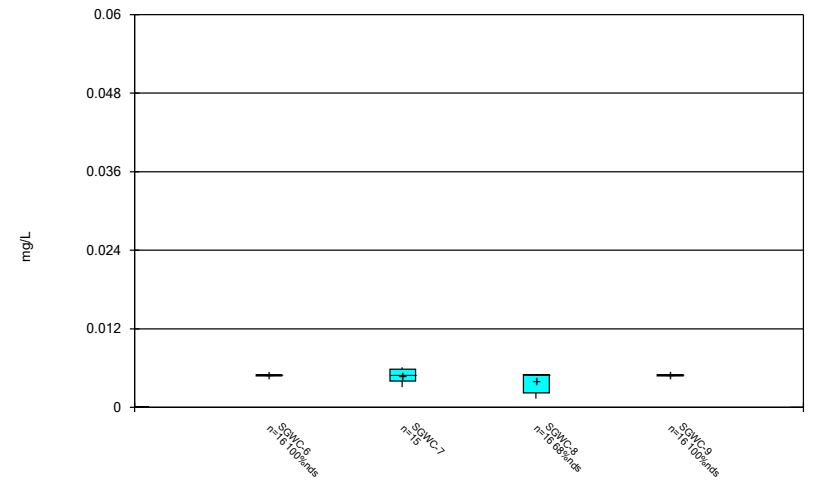
Constituent: Lithium Analysis Run 6/16/2020 2:49 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



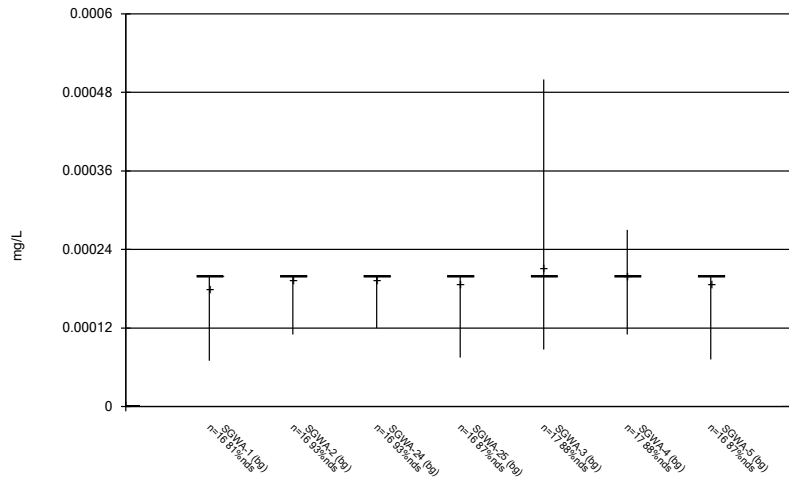
Constituent: Lithium Analysis Run 6/16/2020 2:49 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



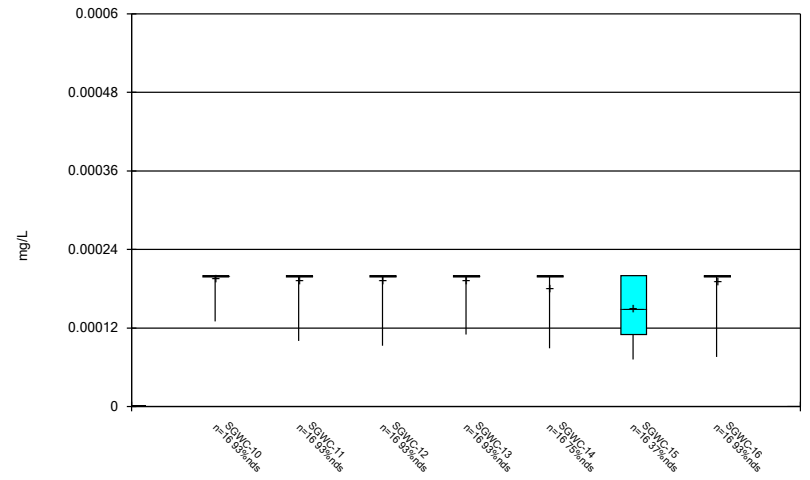
Constituent: Lithium Analysis Run 6/16/2020 2:49 PM
Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



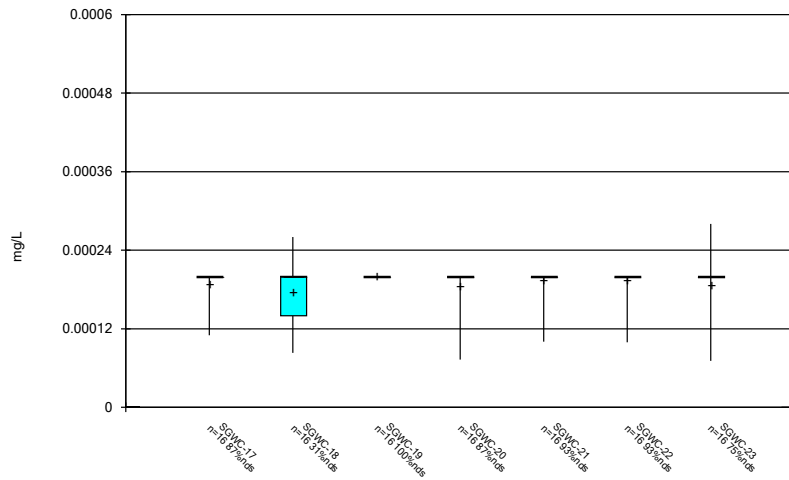
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



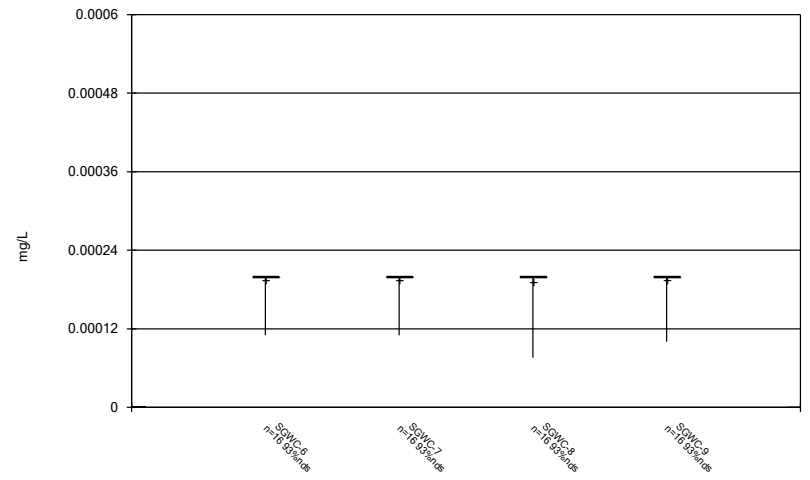
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



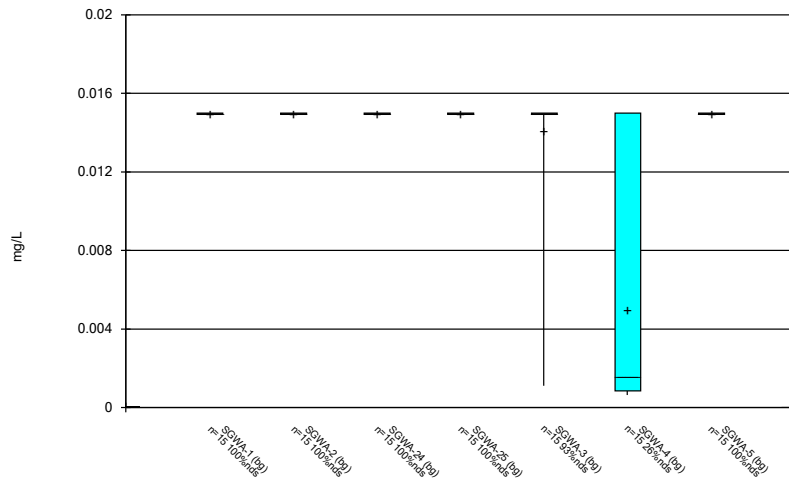
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



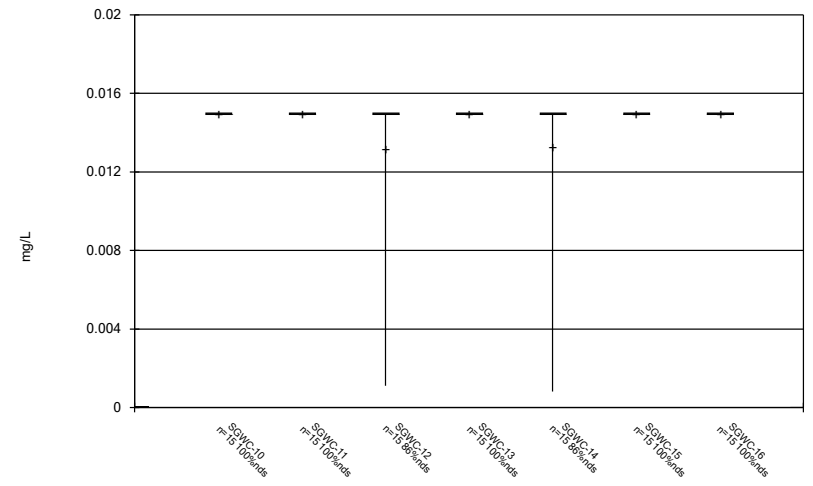
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



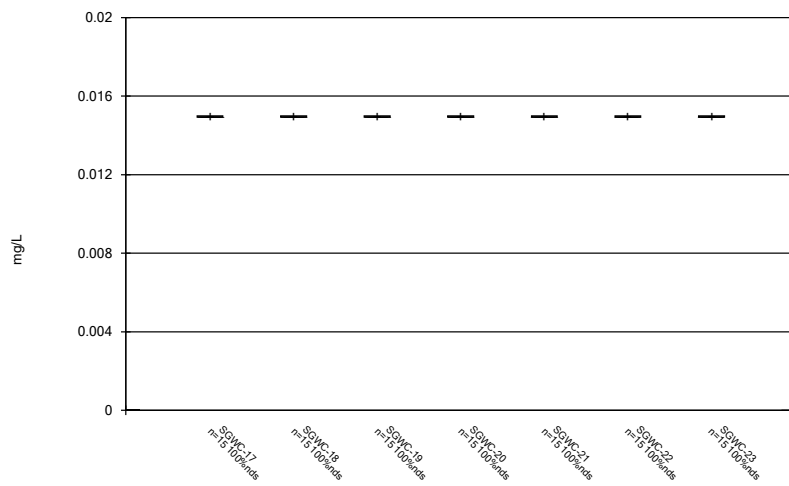
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



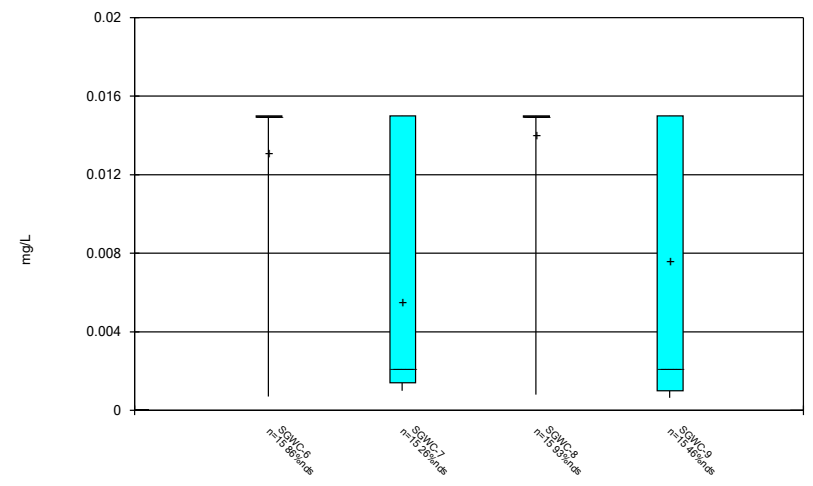
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



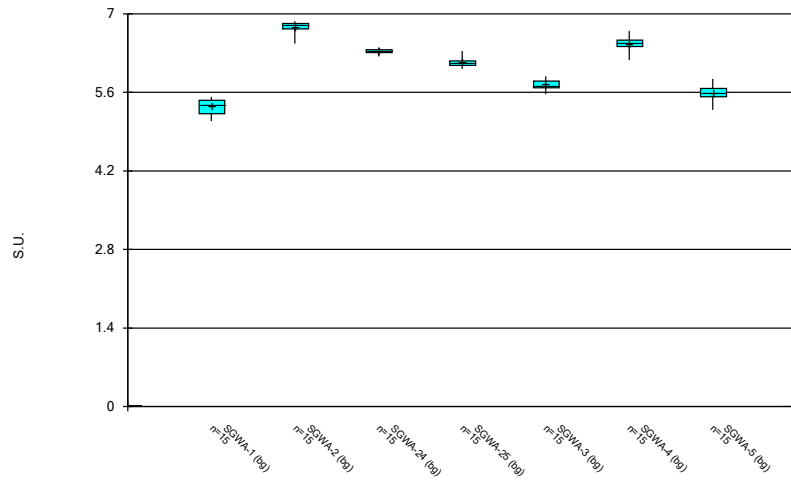
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



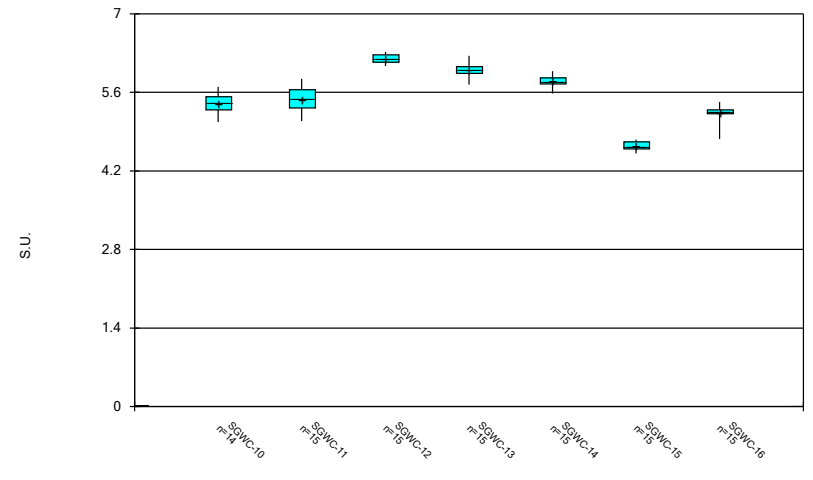
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



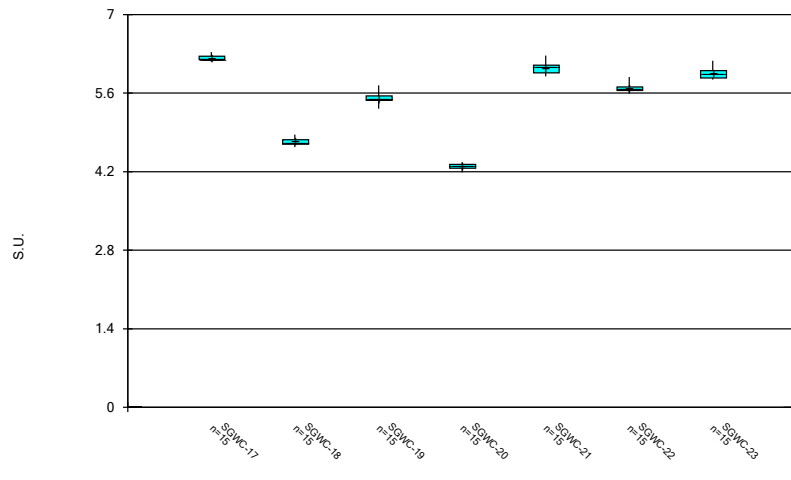
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



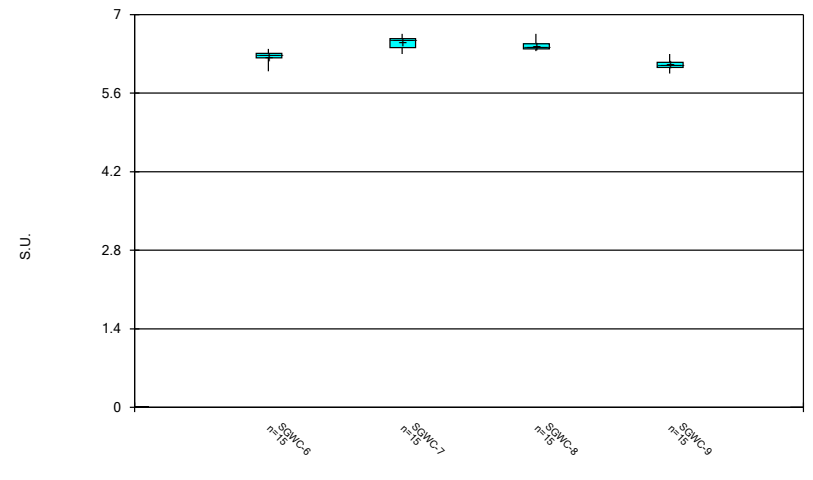
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



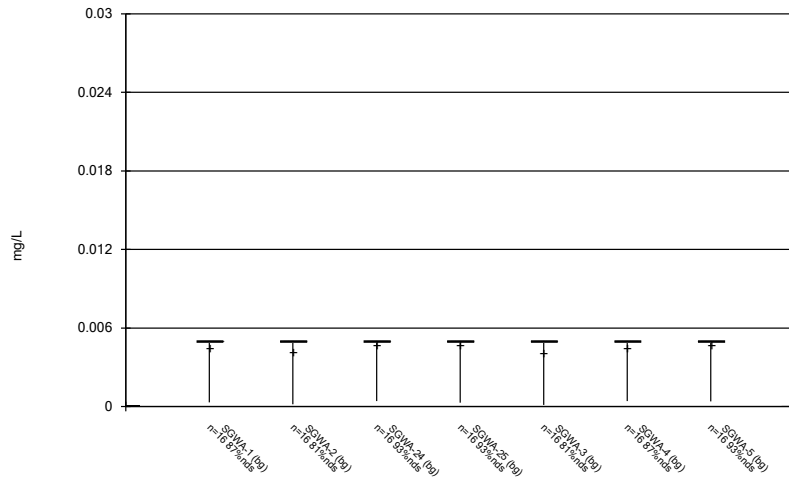
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Box & Whiskers Plot



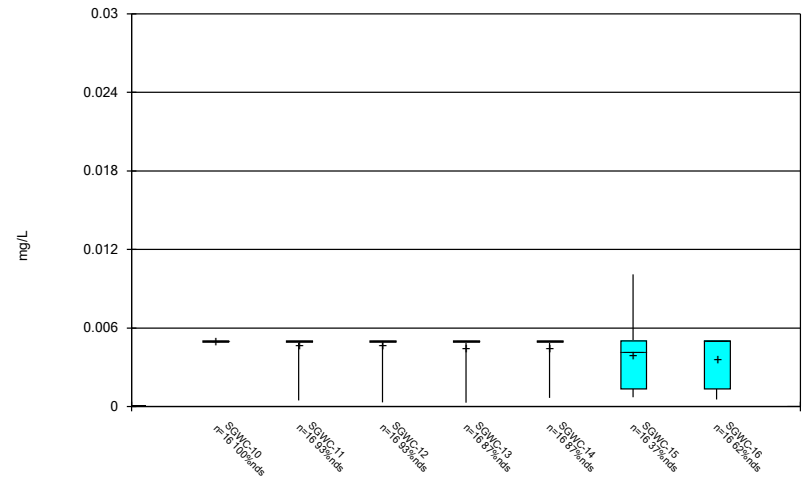
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



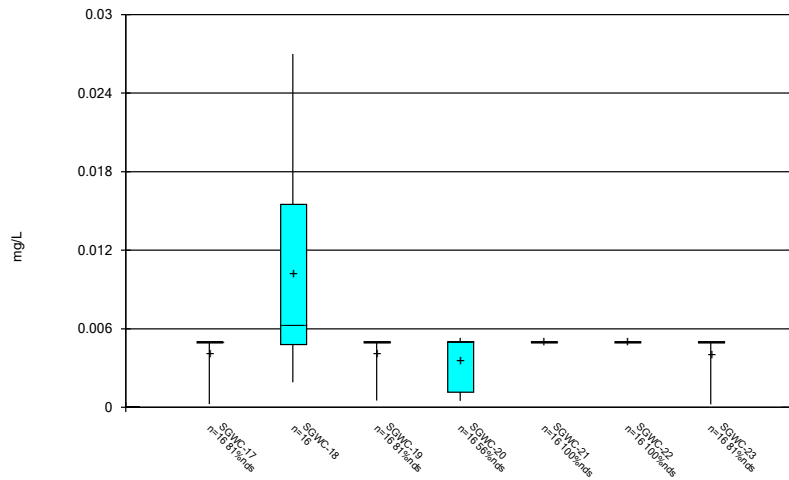
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



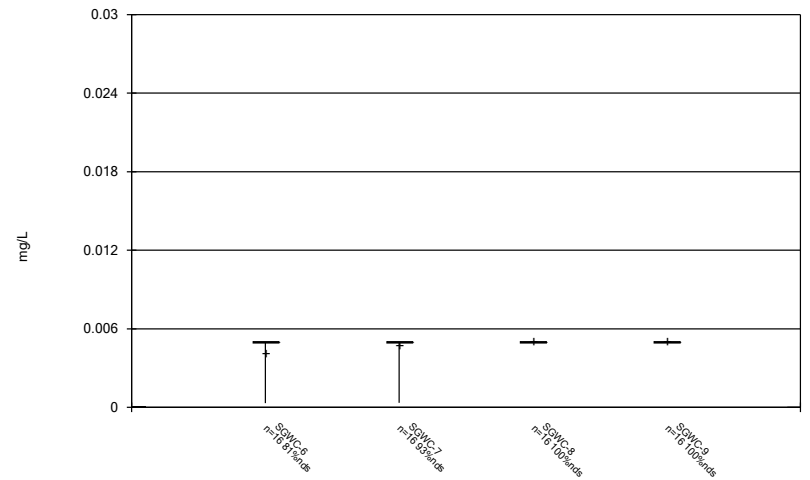
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



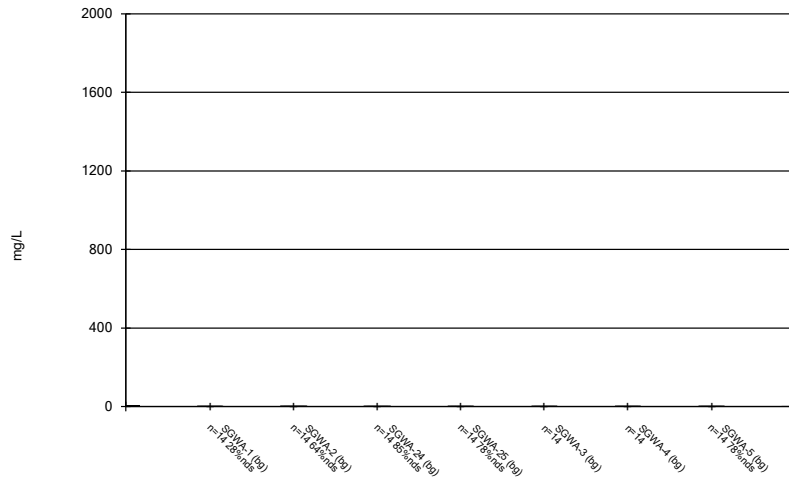
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Box & Whiskers Plot



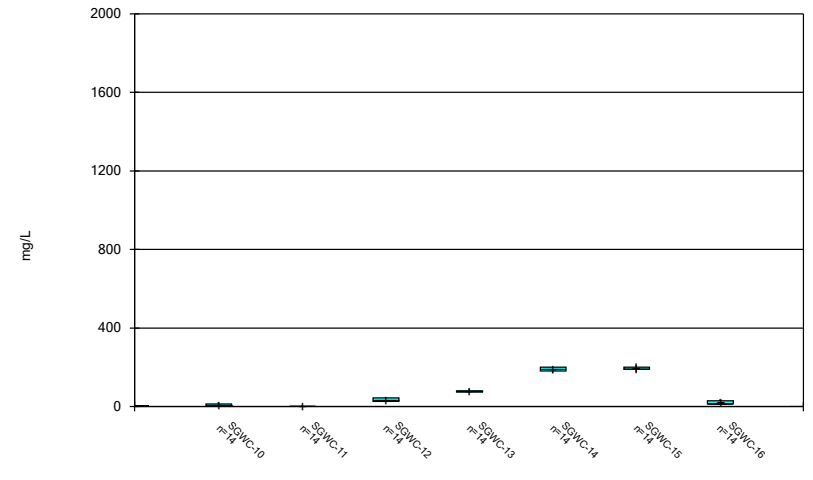
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Box & Whiskers Plot



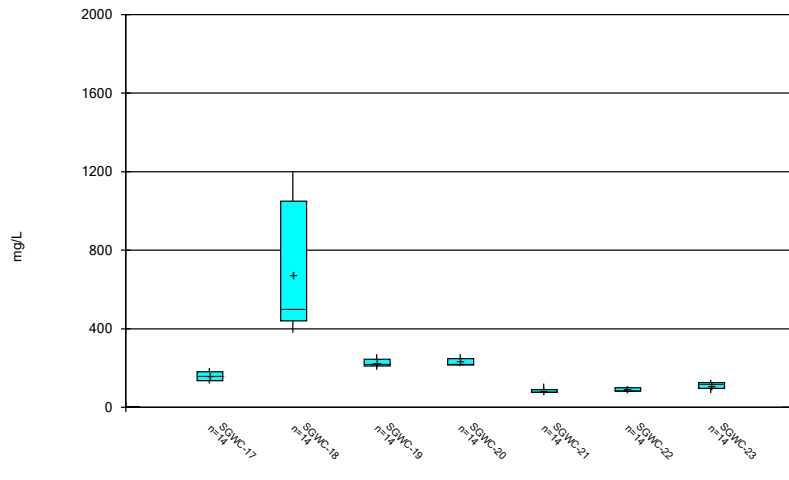
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Box & Whiskers Plot



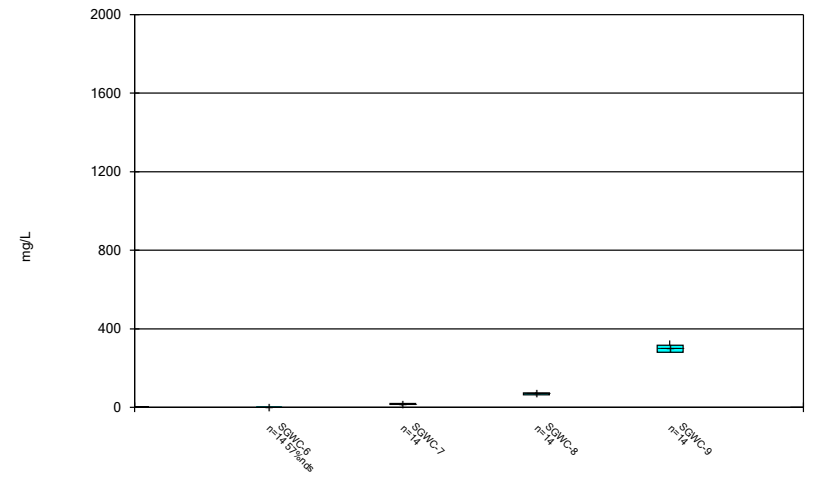
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



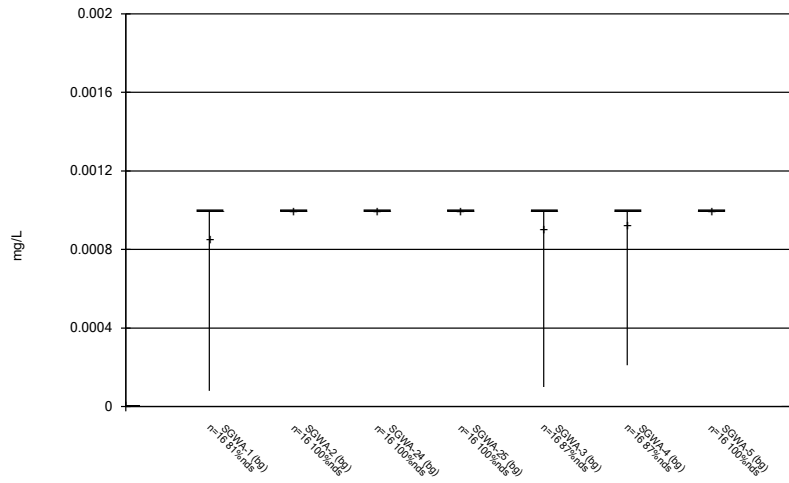
Constituent: Sulfate, total Analysis Run 6/16/2020 2:50 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



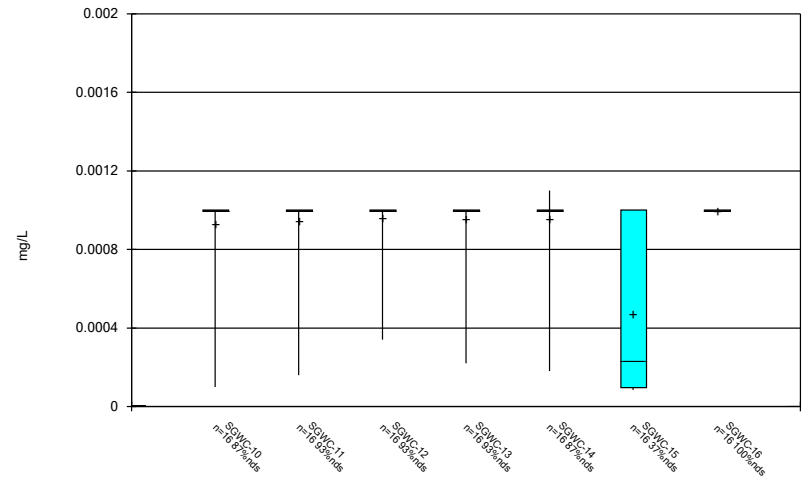
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



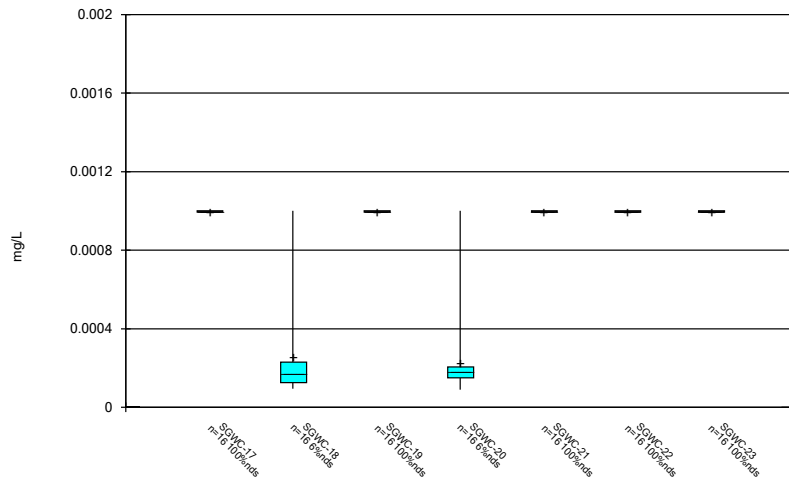
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



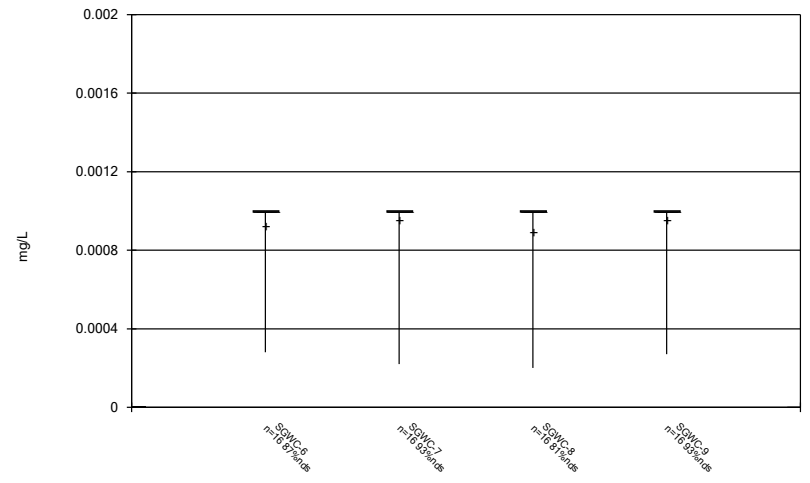
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



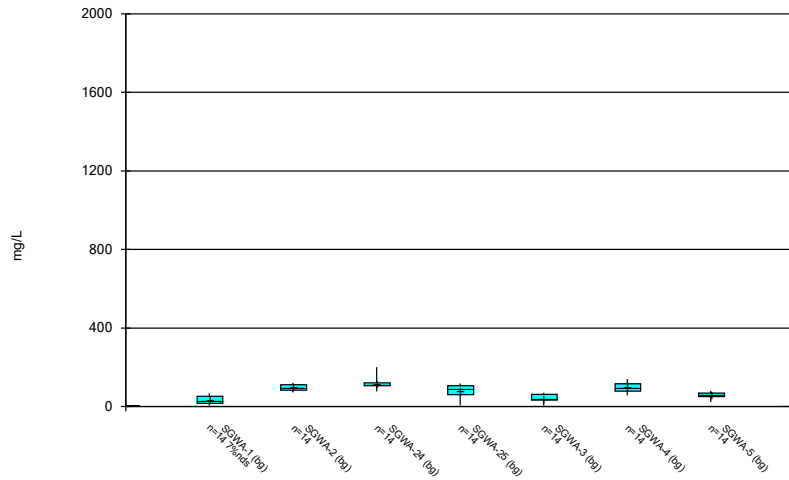
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 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



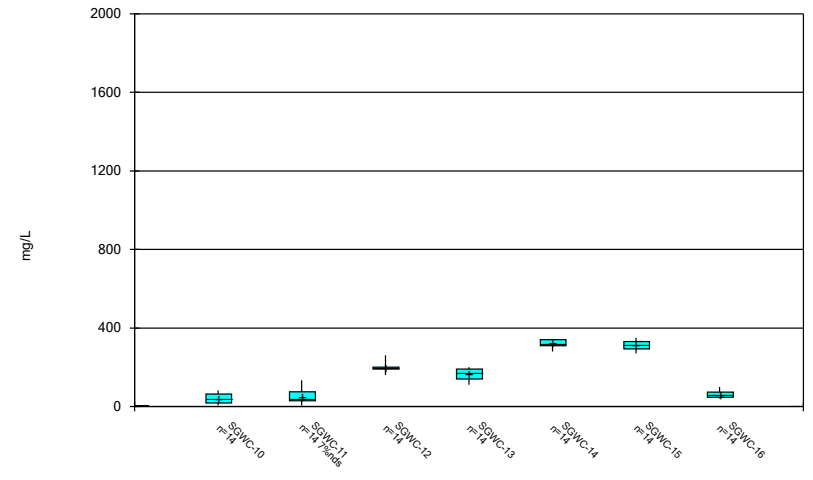
Constituent: Thallium Analysis Run 6/16/2020 2:50 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



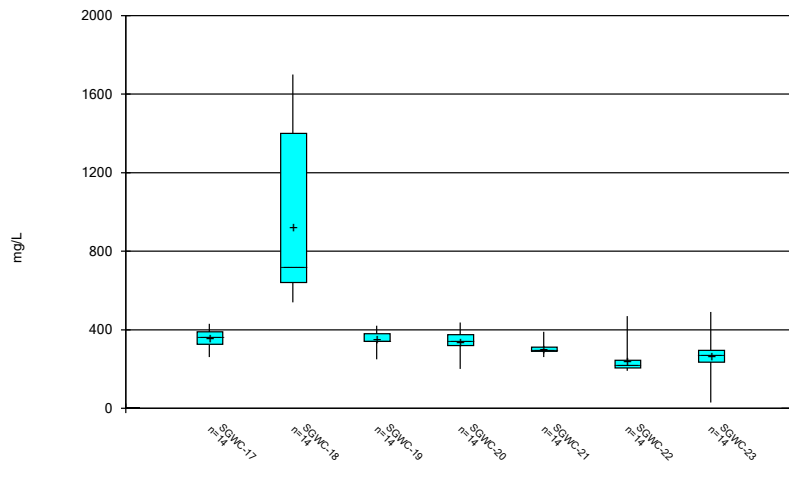
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:50 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



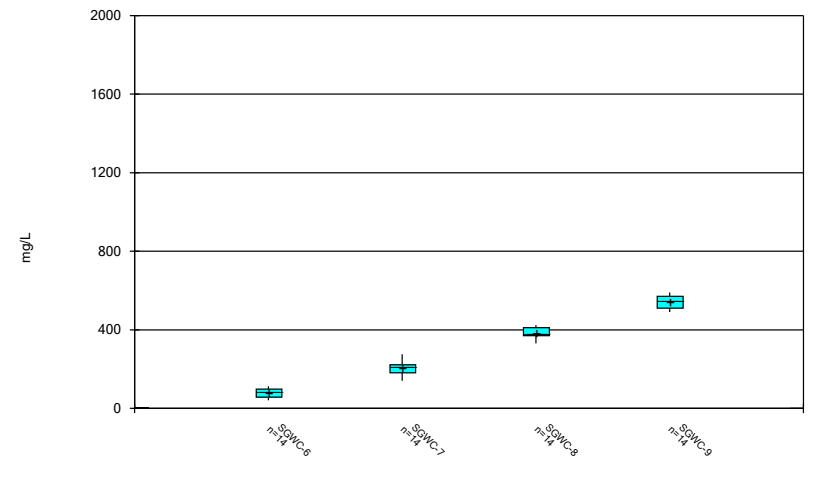
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:50 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/16/2020 2:50 PM
 Plant Scherer Client: Southern Company Data: Scherer AP

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	Observ.	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
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-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
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-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
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-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
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-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
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-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
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-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
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-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
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-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
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-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
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-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
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
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
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-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
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-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
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
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
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-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
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
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-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
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-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

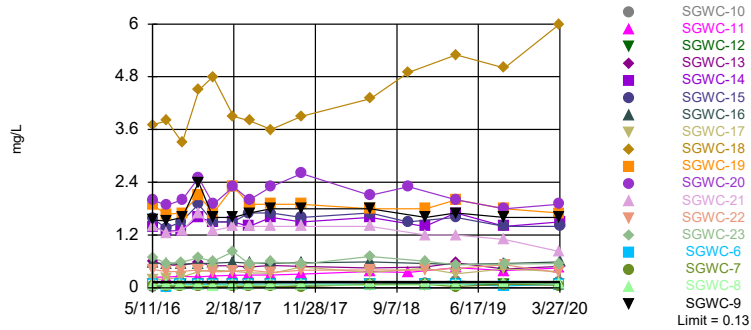
Appendix III Interwell Prediction Limits - All Results

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

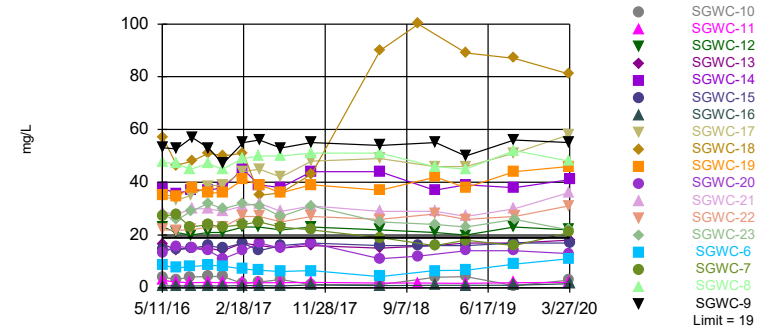


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 98 background values. 93.88% NDs. Annual per-constituent alpha = 0.007164. Individual comparison alpha = 0.0001997 (1 of 2). Comparing 18 points to limit.

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

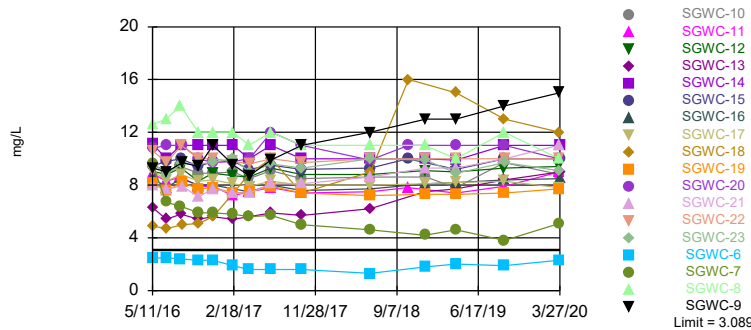


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. Annual per-constituent alpha = 0.007164. Individual comparison alpha = 0.0001997 (1 of 2). Comparing 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

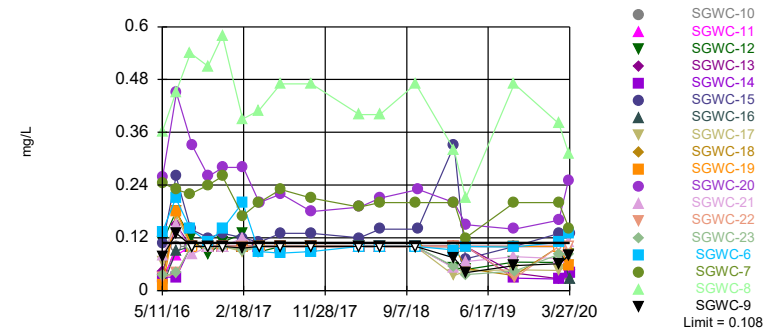


Background Data Summary (based on natural log transformation): Mean=0.5915, Std. Dev.=0.2545, n=98. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9714, critical = 0.966. Kappa = 2.106 (c=7, w=18, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000418. 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

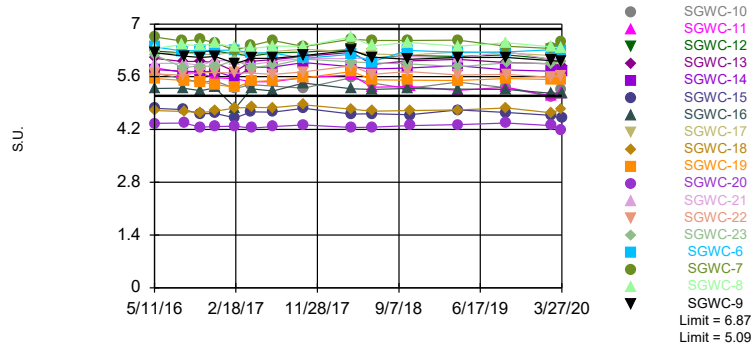


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 119 background values. 69.75% NDs. Annual per-constituent alpha = 0.004914. Individual comparison alpha = 0.0001368 (1 of 2). Comparing 18 points to limit.

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



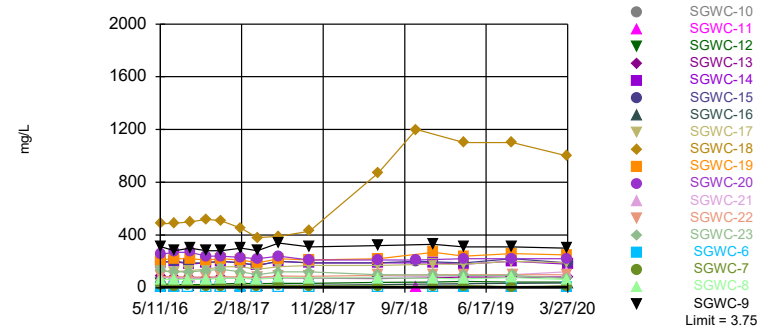
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 105 background values. Annual per-constituent alpha = 0.01269. Individual comparison alpha = 0.0003536 (1 of 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



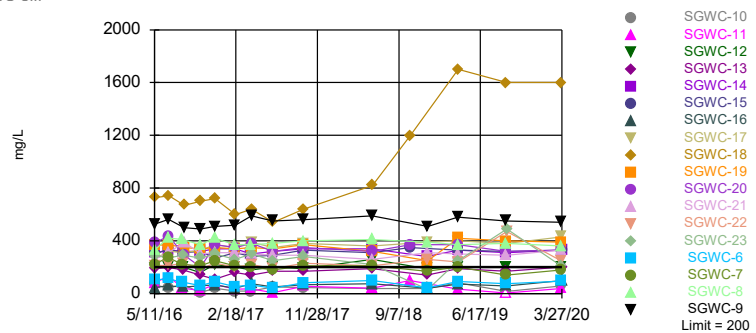
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 47.96% NDs. Annual per-constituent alpha = 0.007164. Individual comparison alpha = 0.0001997 (1 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
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-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
Boron, total (mg/L)	SGWC-18	0.4938	53	48	Yes	14	0	n/a	n/a	0.01	NP
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
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)	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
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-18	9.39	24	48	No	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-21	0.36	17	48	No	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-23	-1.669	-37	-48	No	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
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
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)	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
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-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
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-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
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-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
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)	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
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-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
Fluoride, total (mg/L)	SGWC-7	-0.01539	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
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
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)	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
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-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
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-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
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
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
Total Dissolved Solids [TDS] (mg/L)	SGWC-17	28.55	66	48	Yes	14	0	n/a	n/a	0.01	NP
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.

SCHERER ASH POND GWPS - FEDERAL				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
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.

SCHERER ASH POND GWPS - STATE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
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)
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-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.
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-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)
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-19	0.0025	0.00015	0.02	No	16	0.001492	0.001063	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	SGWC-20	0.2313	0.1689	0.02	Yes	16	0.2001	0.04797	0	None	No	0.01	Param.
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)

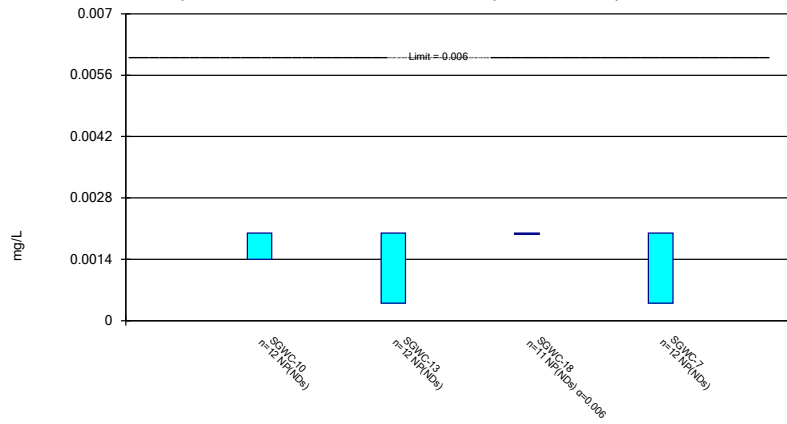
Federal Confidence Intervals - All Results

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

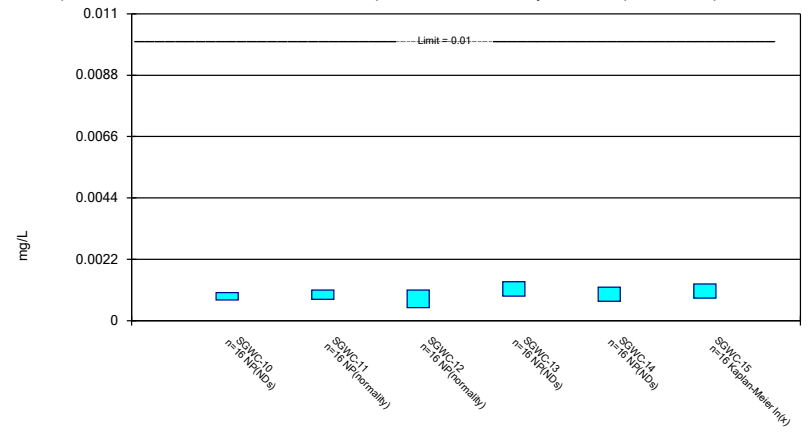
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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

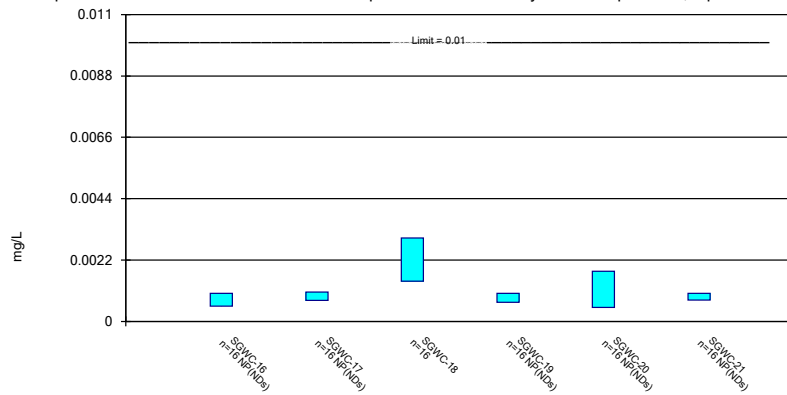
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

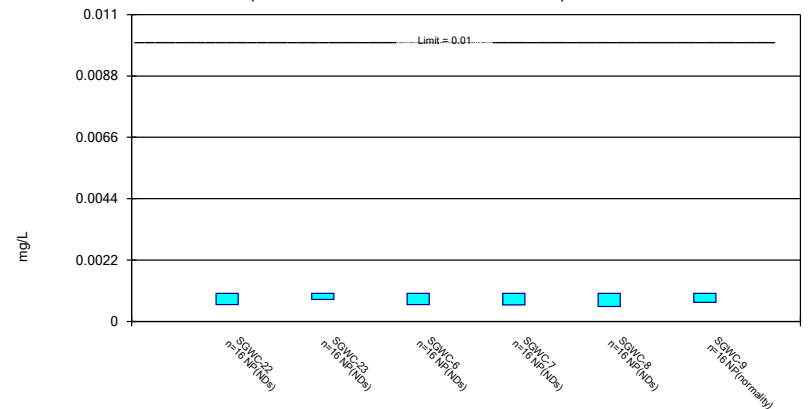
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

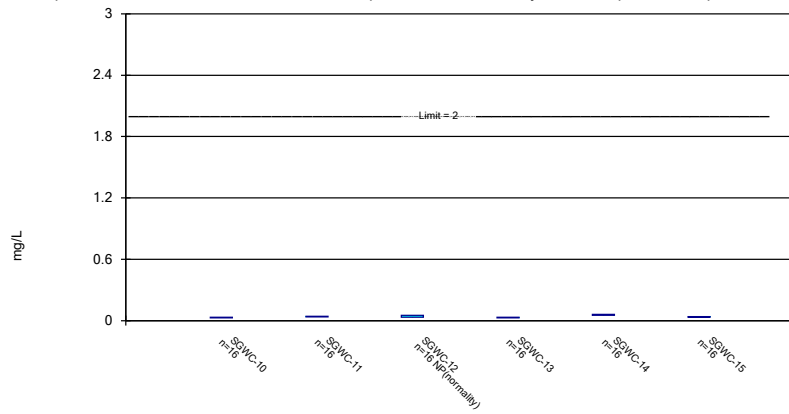
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

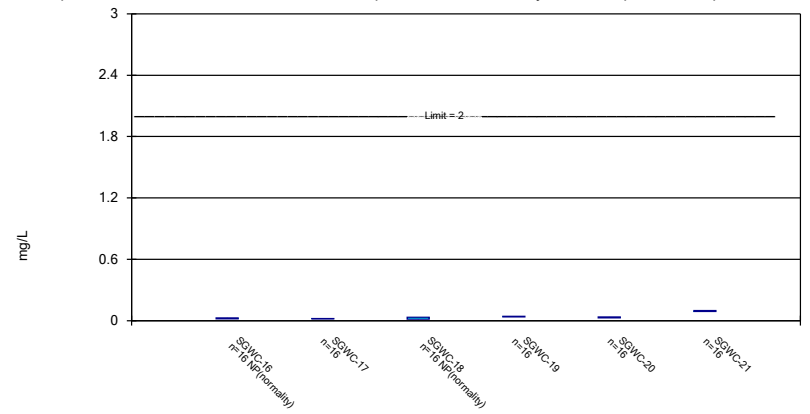
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

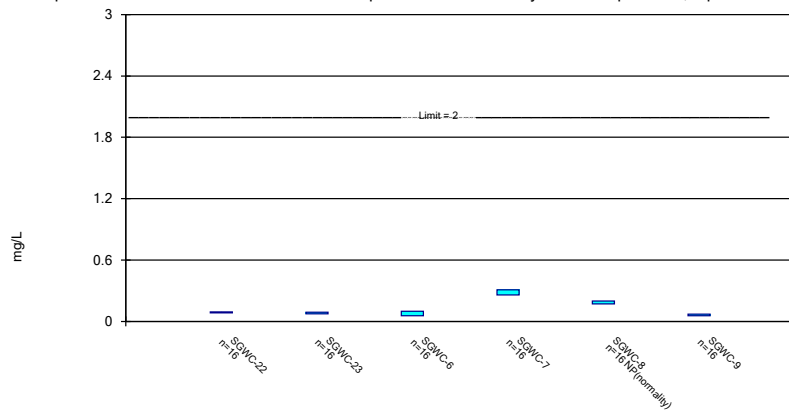
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

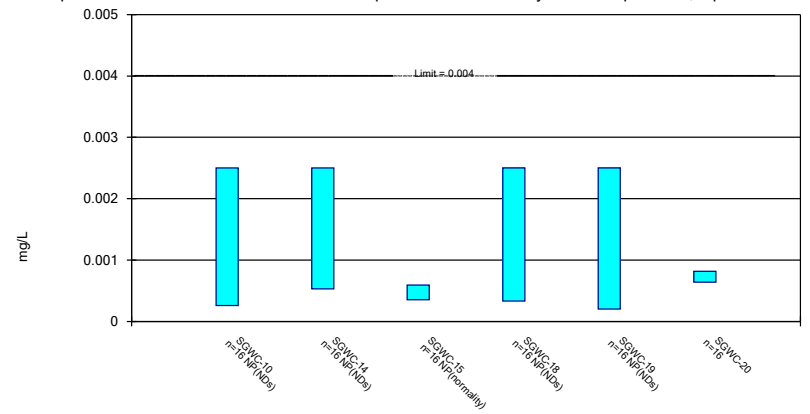
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

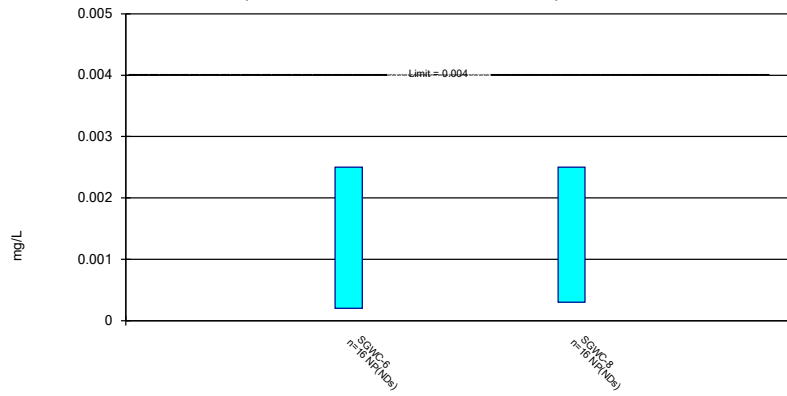
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

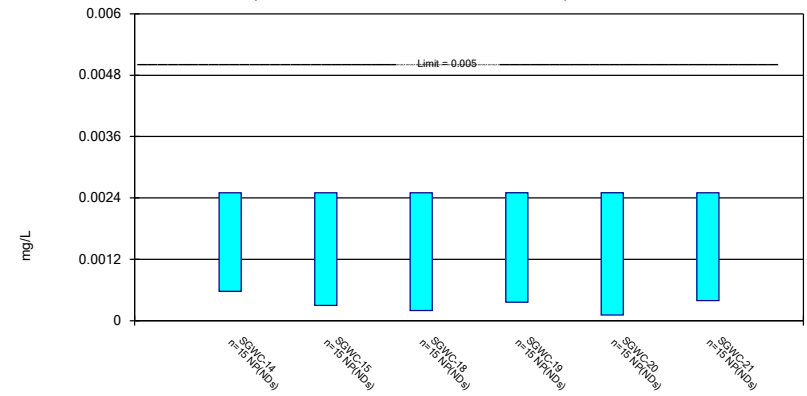
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

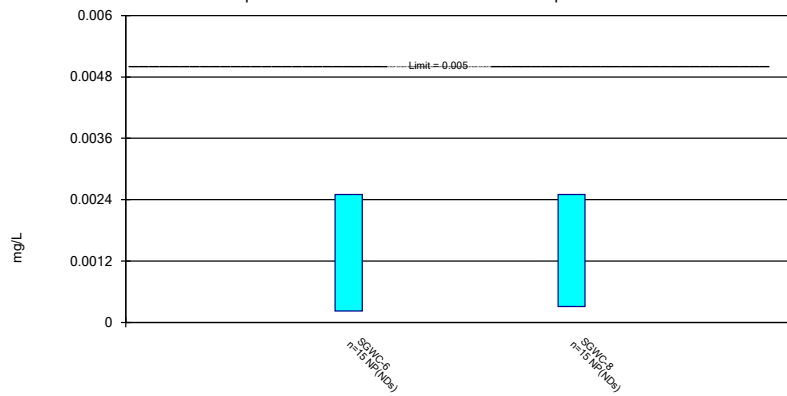
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

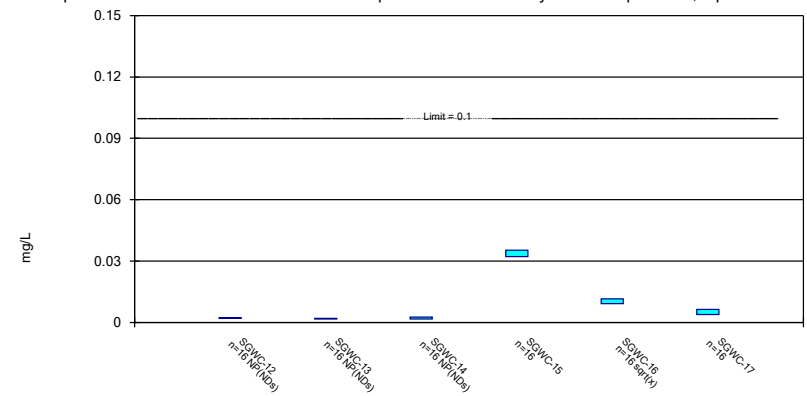
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

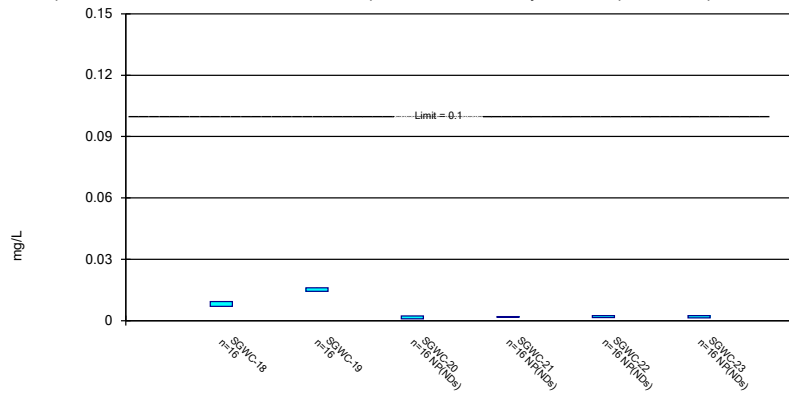
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

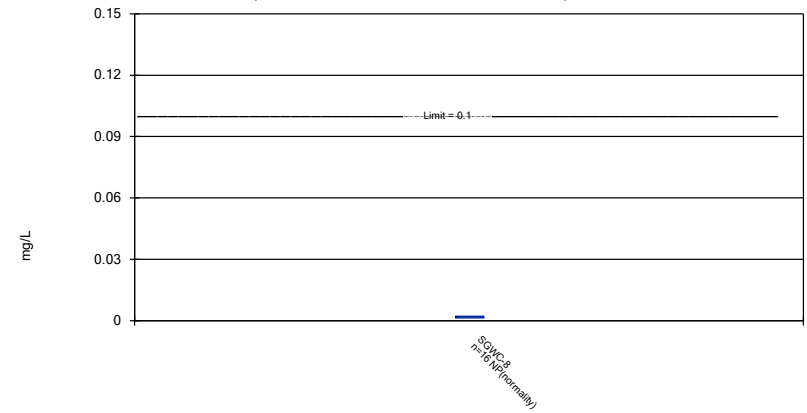
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

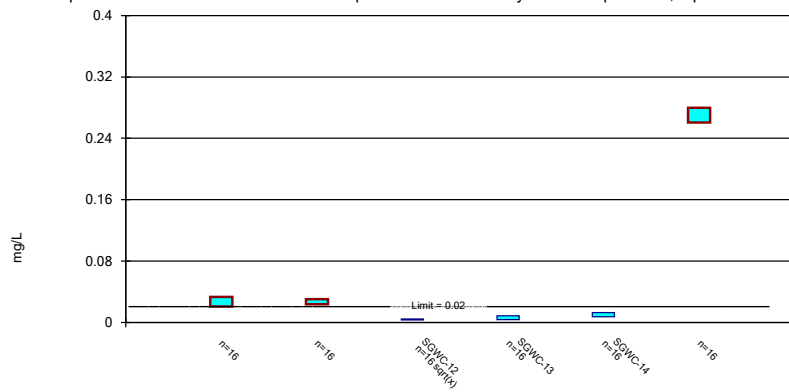
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 6/16/2020 2:38 PM View: Appendix IV
Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

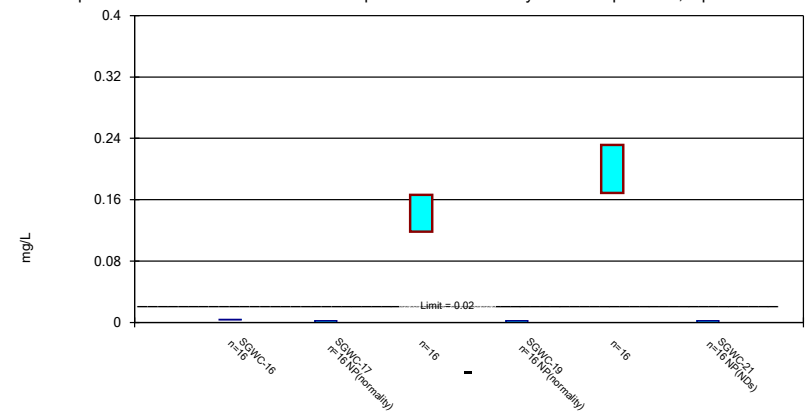
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

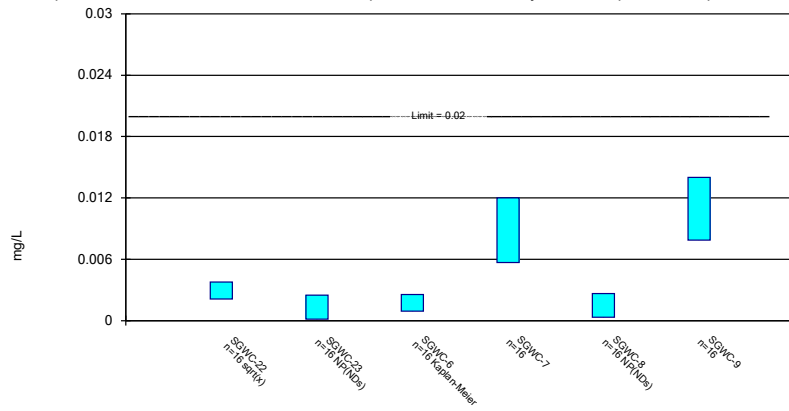
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

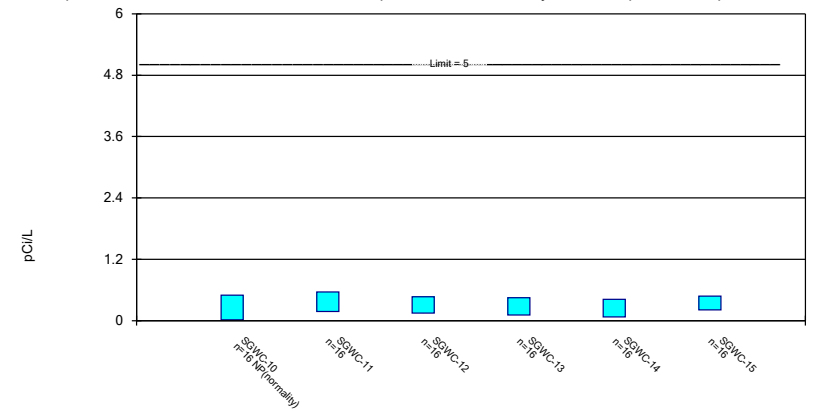
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

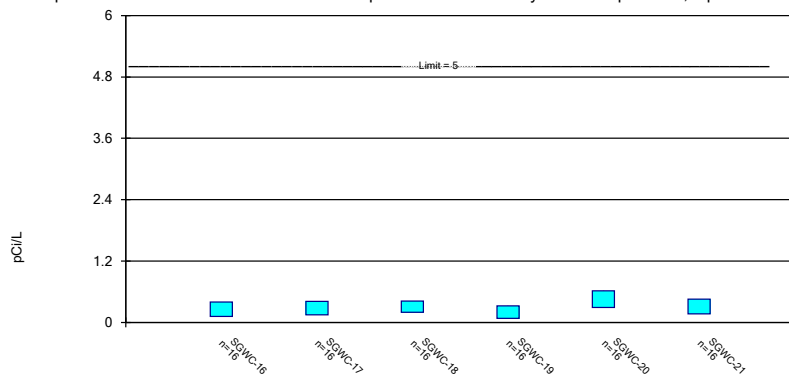
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

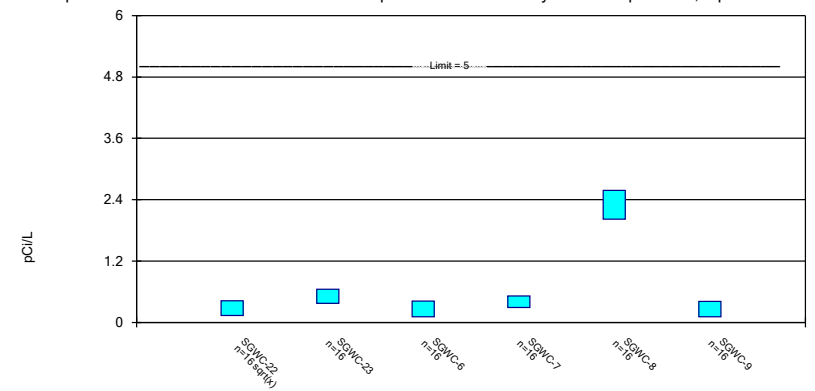
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

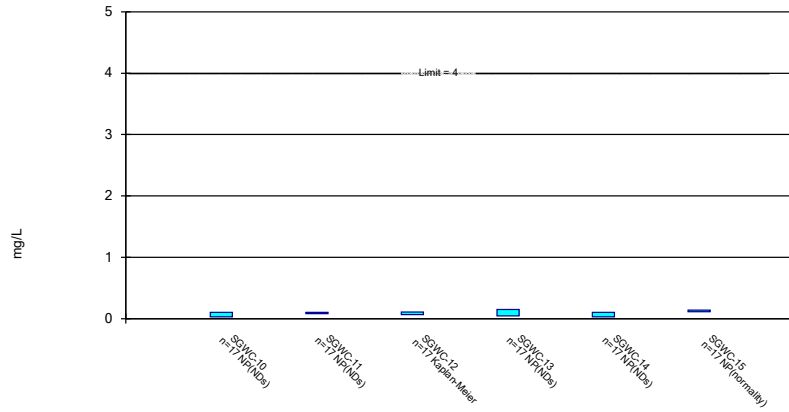
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

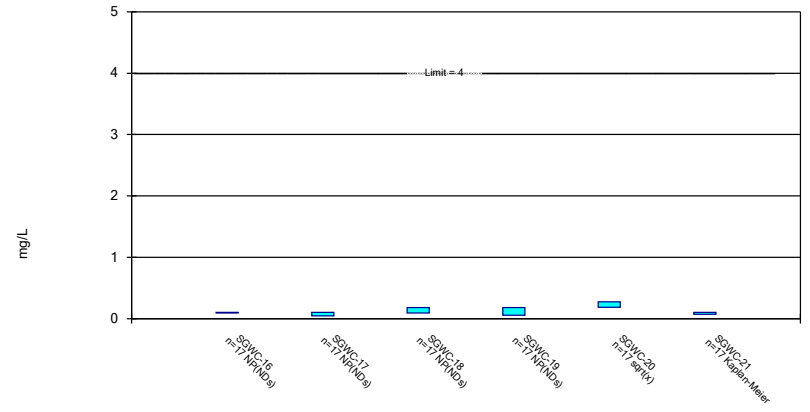
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

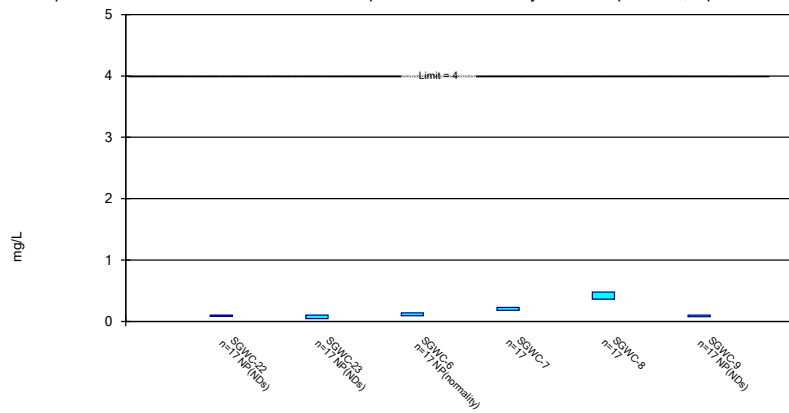
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

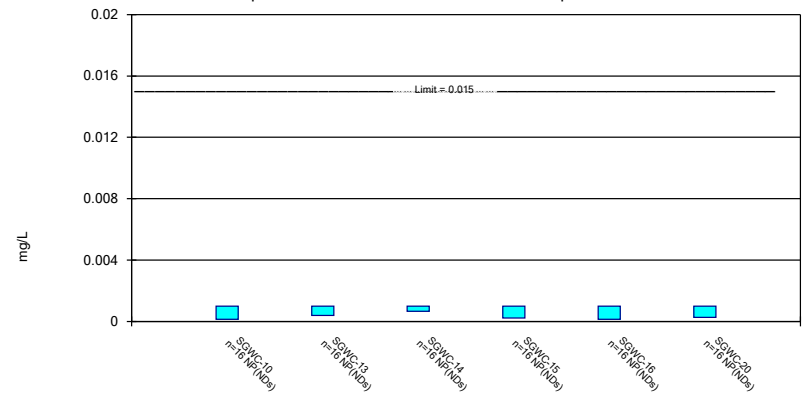
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

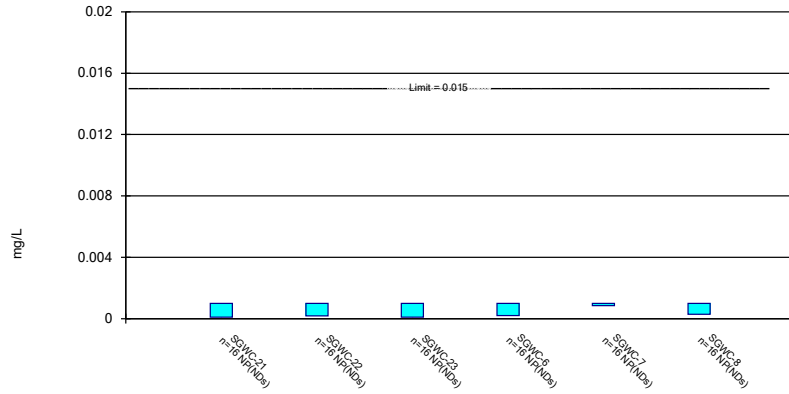
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

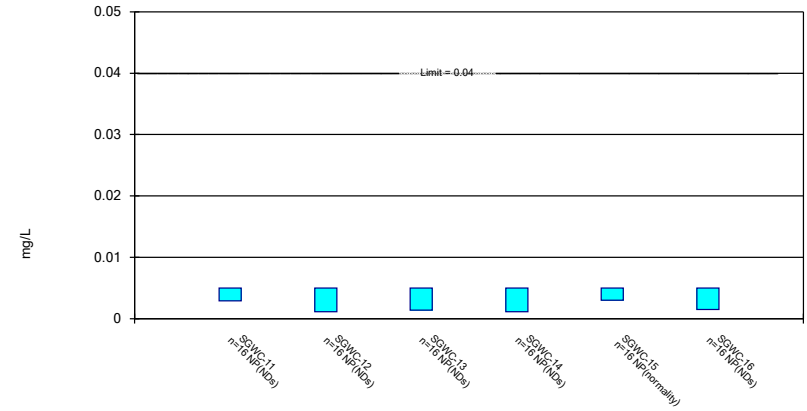
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

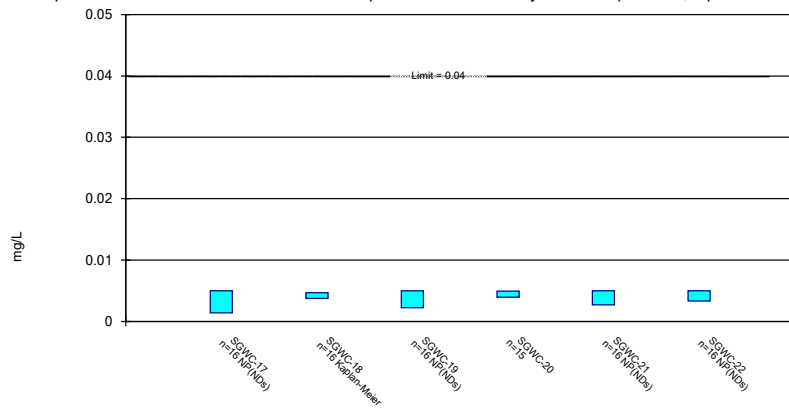
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

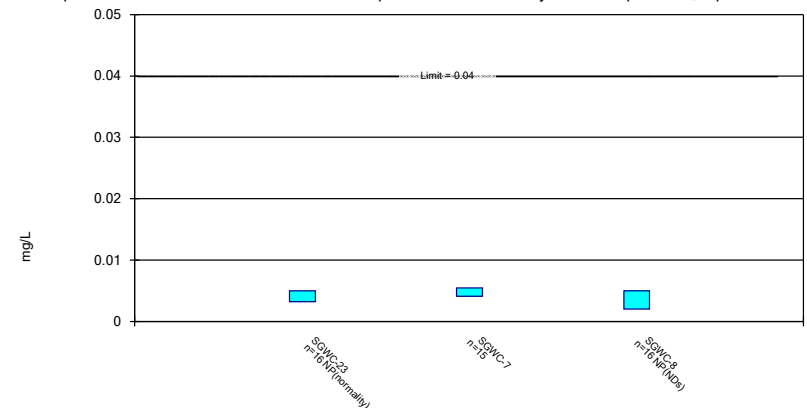
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

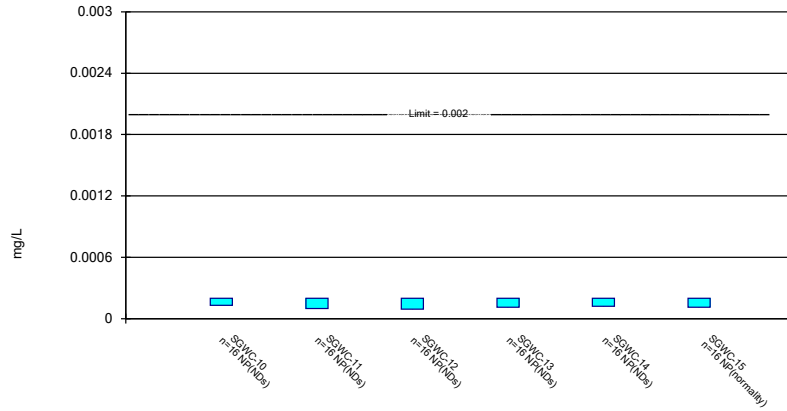
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

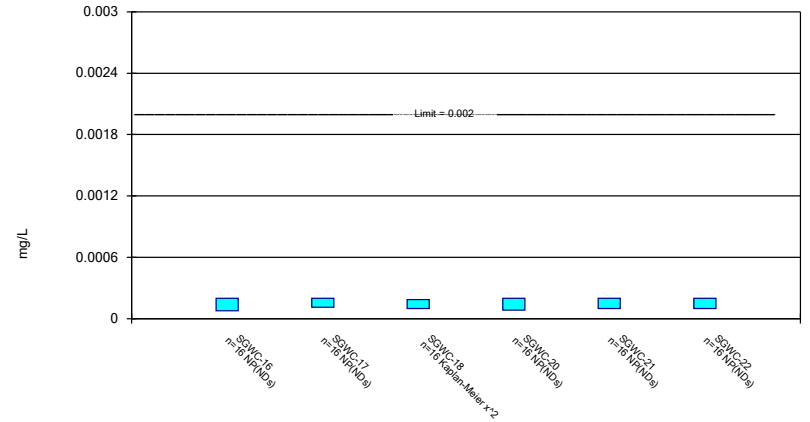
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

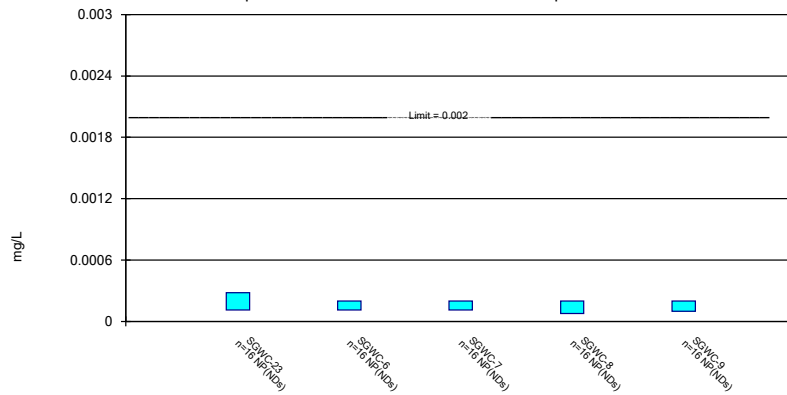
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

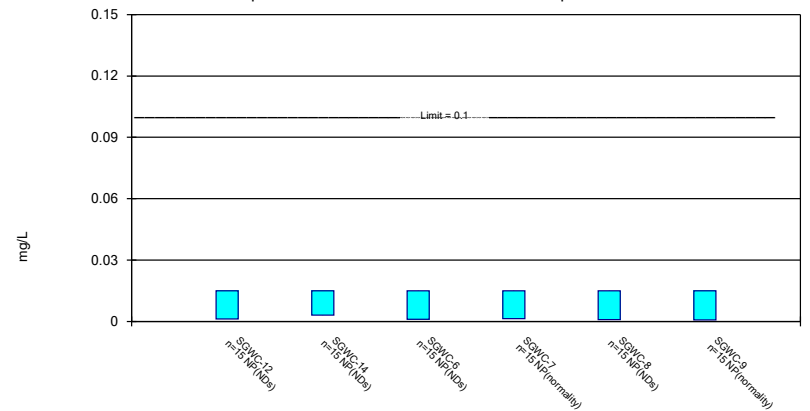
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

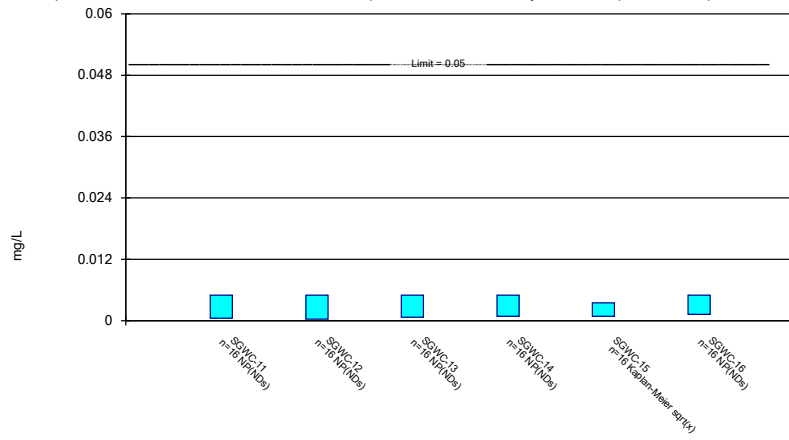
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

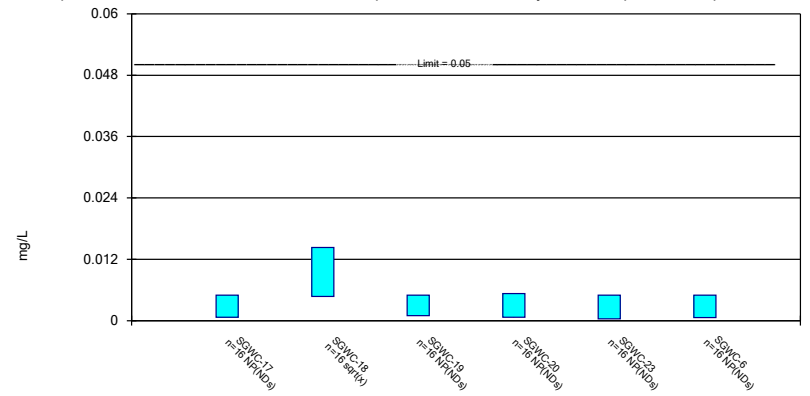
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

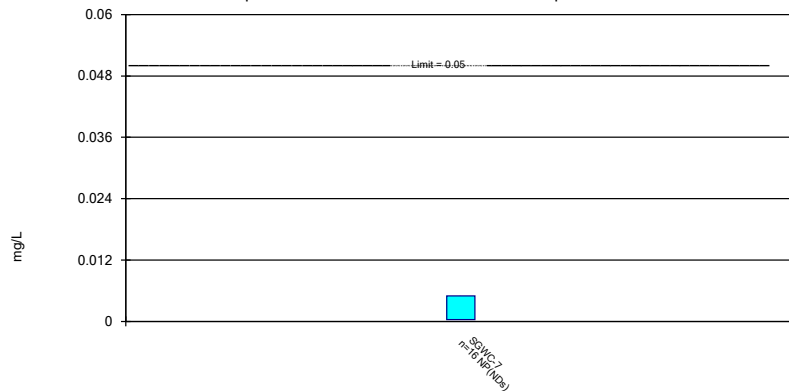
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

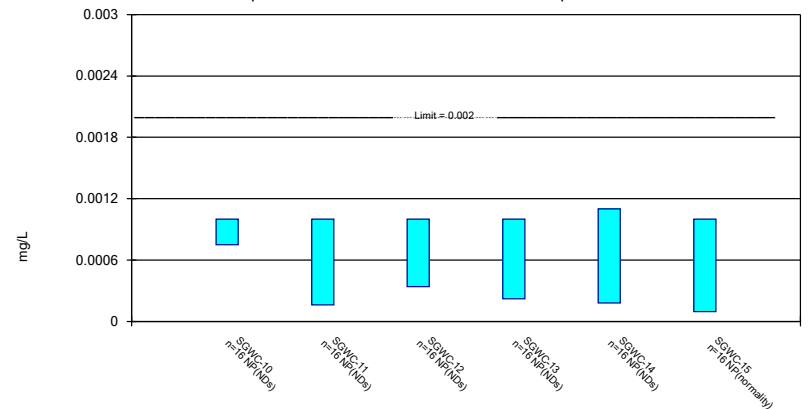
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

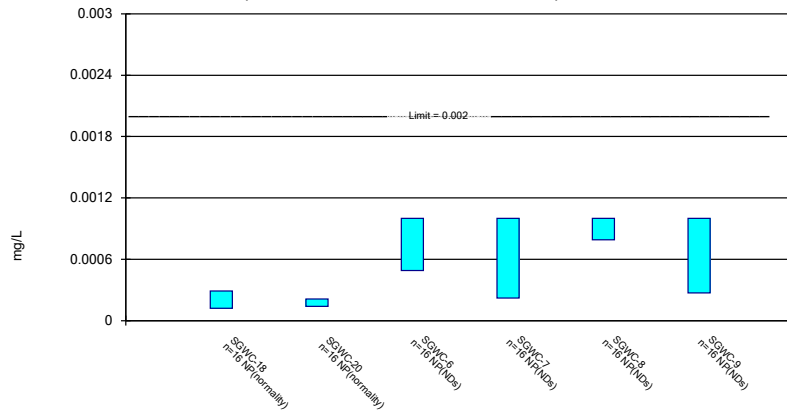
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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.

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Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	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)

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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)
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-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.
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-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)
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-19	0.0025	0.00015	0.02	No	16	0.001492	0.001063	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	SGWC-20	0.2313	0.1689	0.02	Yes	16	0.2001	0.04797	0	None	No	0.01	Param.
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)

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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-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)

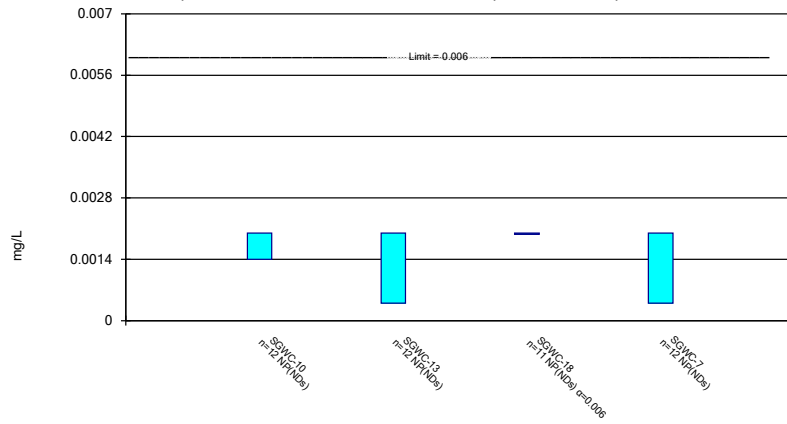
State Confidence Intervals - All Results

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

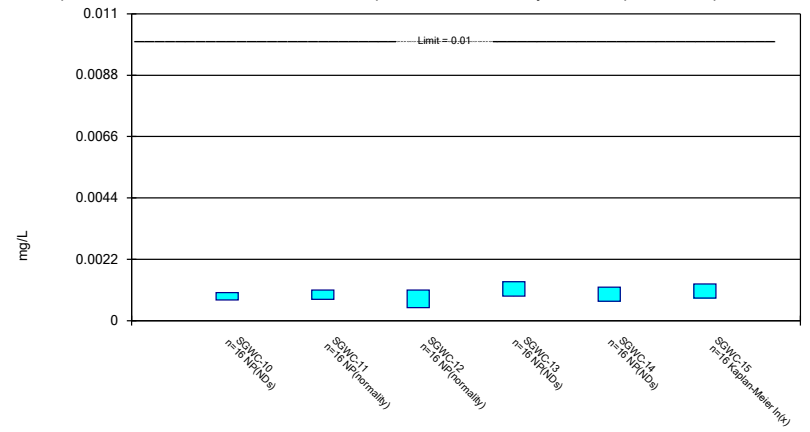
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



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

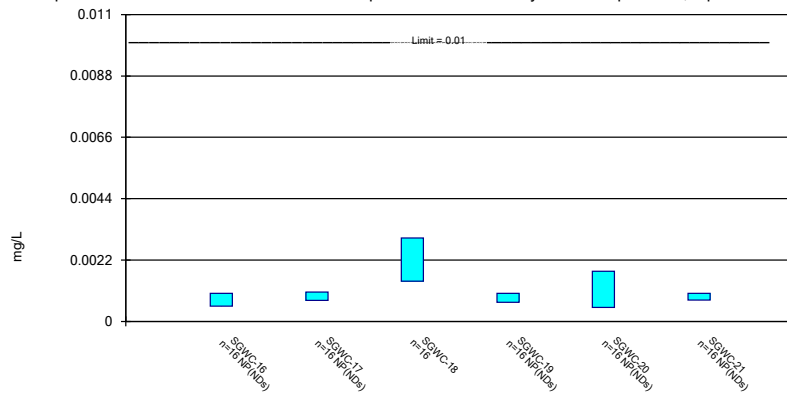
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Constituent: Arsenic Analysis Run 6/16/2020 2:35 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

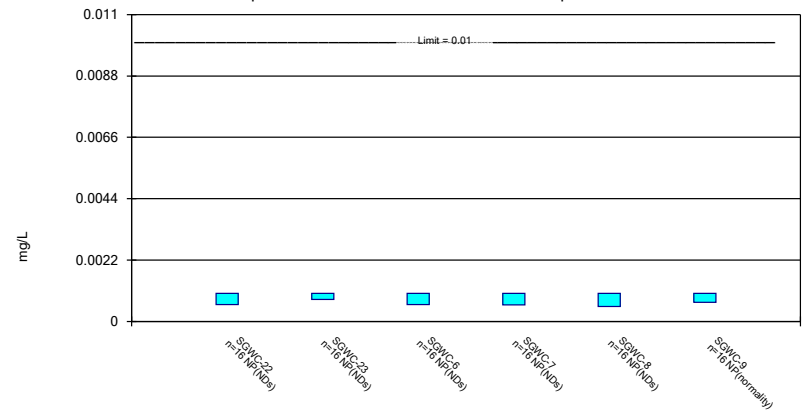
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

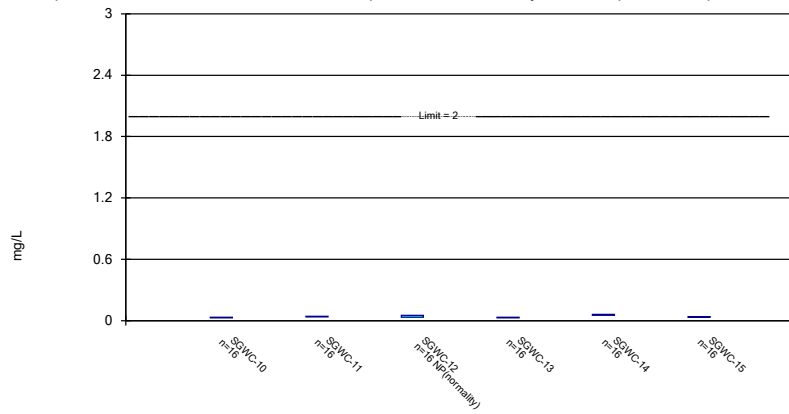
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Constituent: Arsenic Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

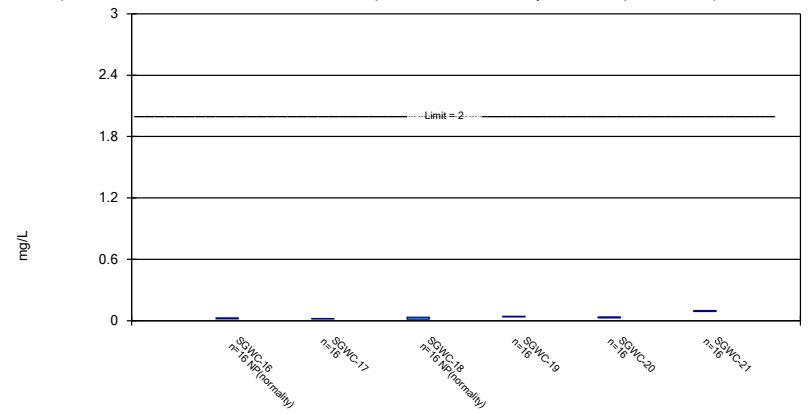
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Constituent: Barium Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

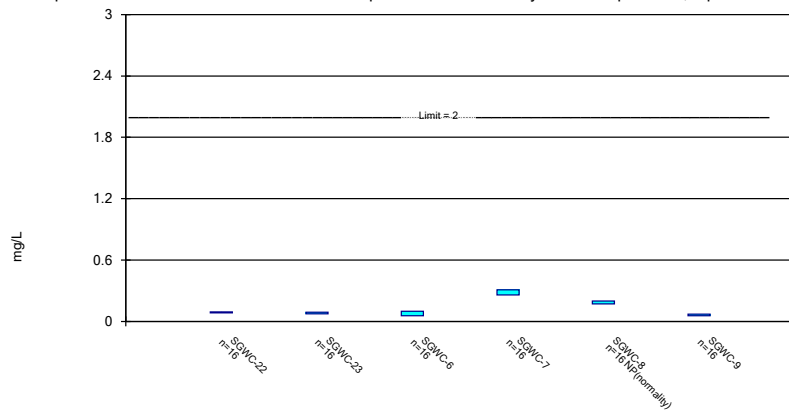
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

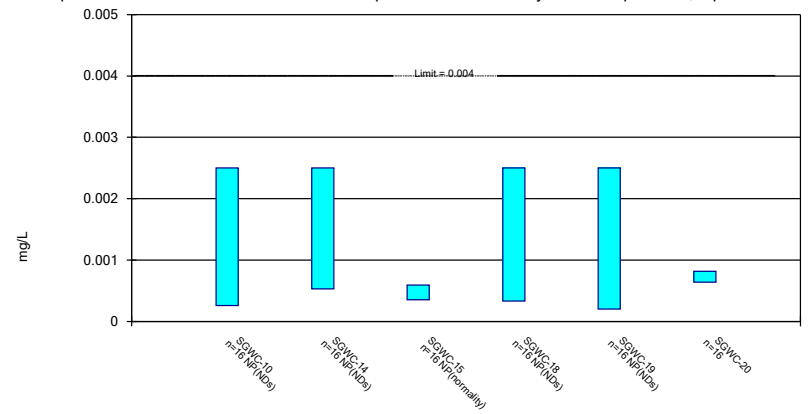
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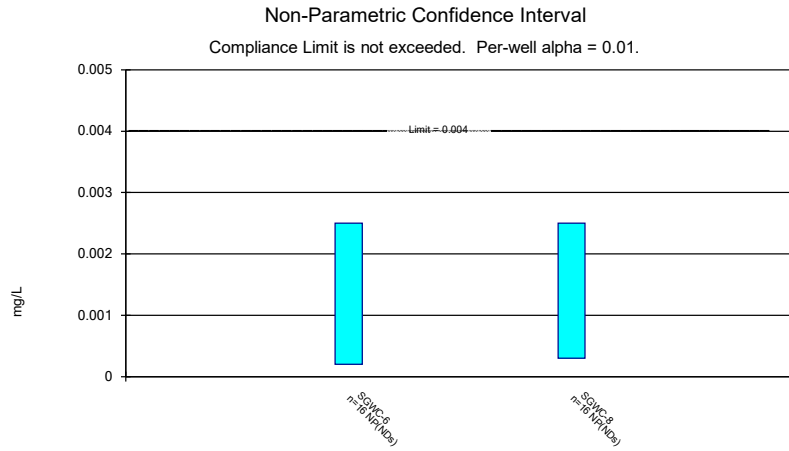
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 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

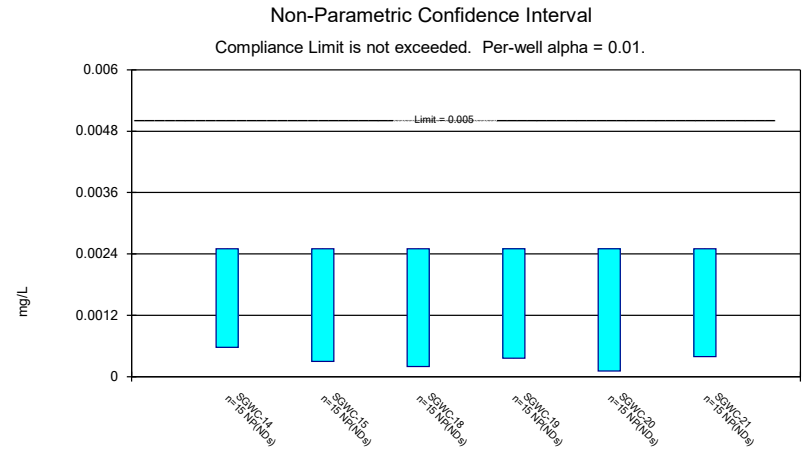
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



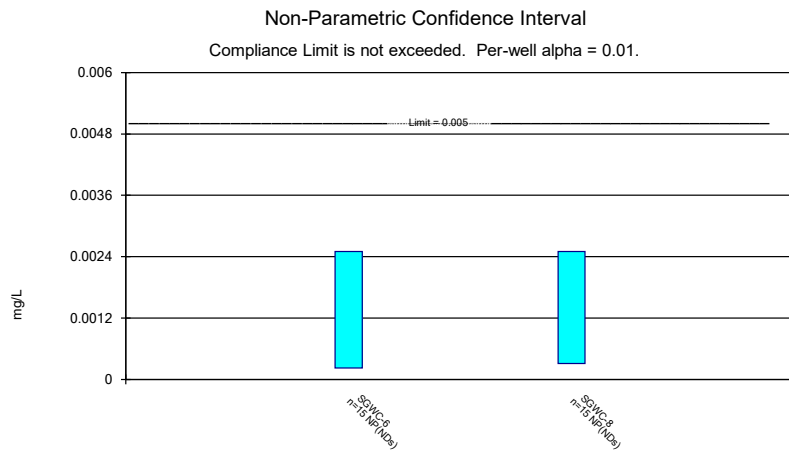
Constituent: Beryllium Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP



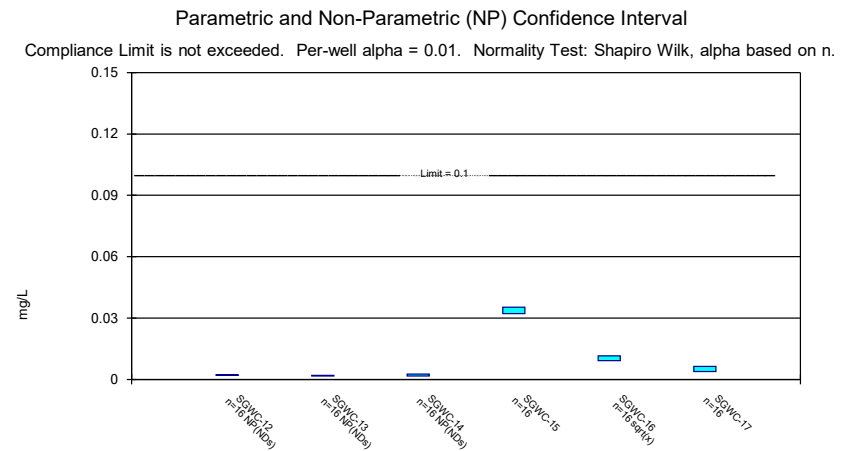
Constituent: Beryllium Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP



Constituent: Cadmium Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP



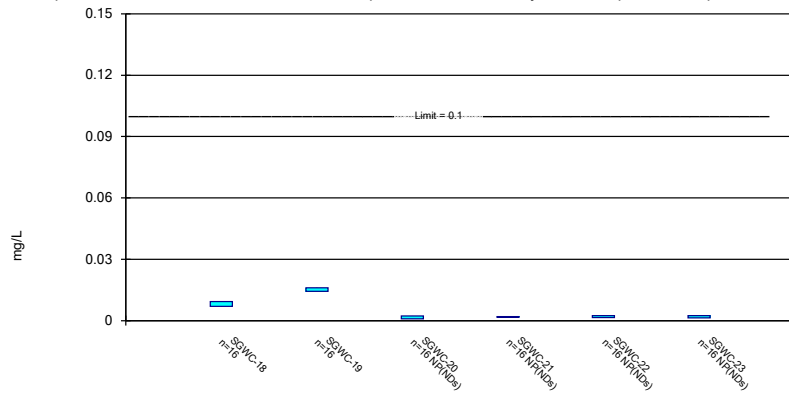
Constituent: Cadmium Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP



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

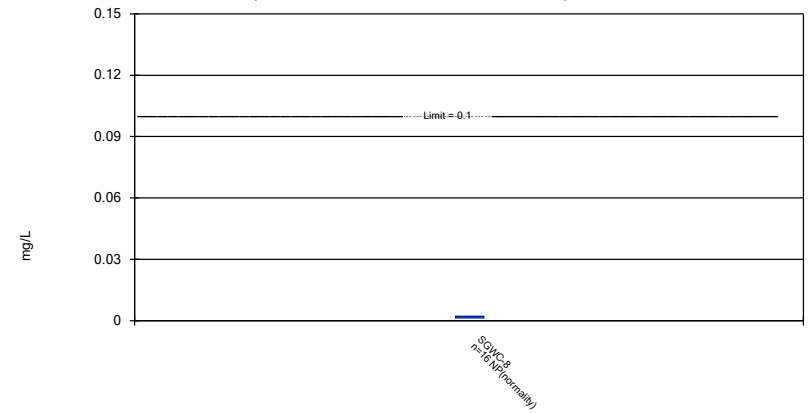
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Constituent: Chromium Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

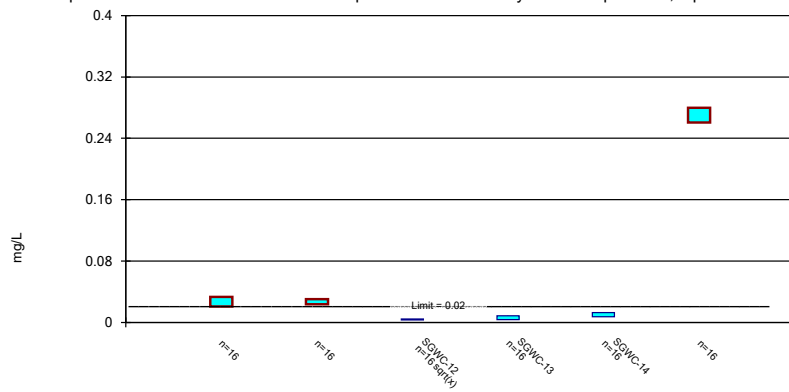
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

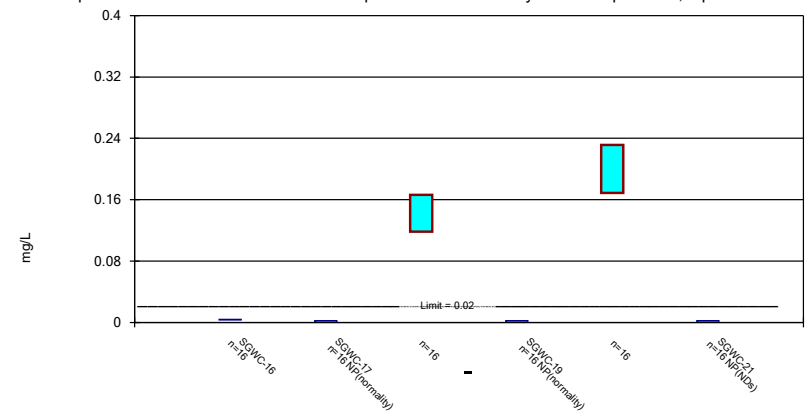
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

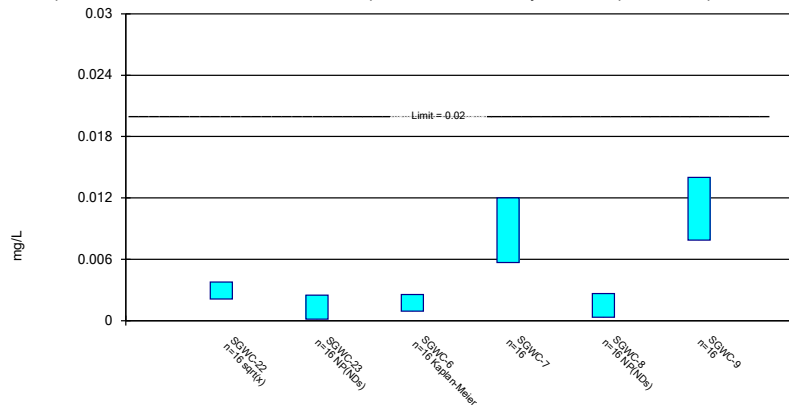
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

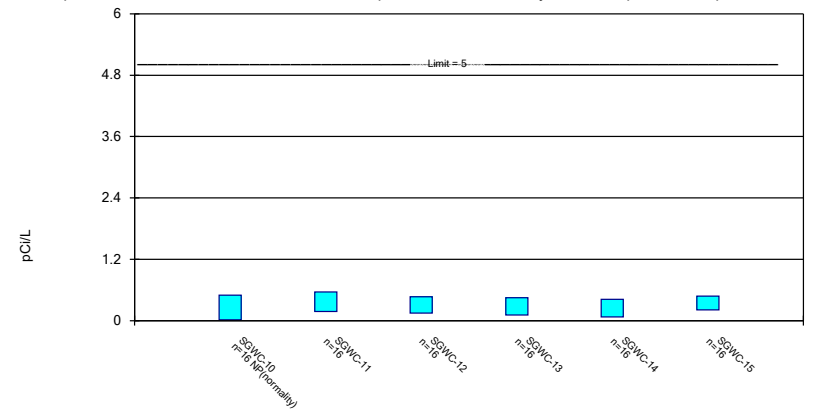
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Constituent: Cobalt Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

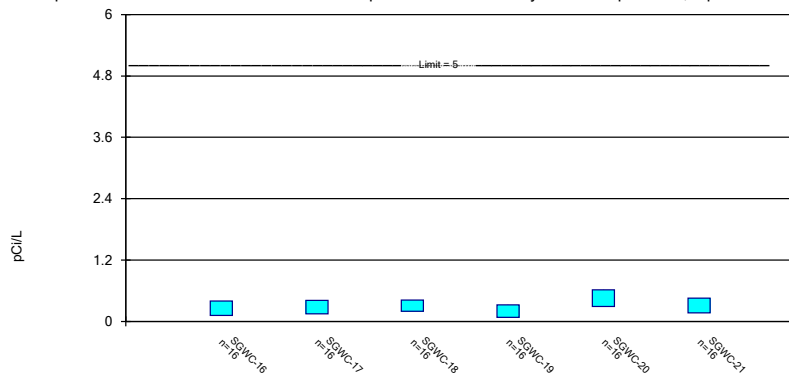
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Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric Confidence Interval

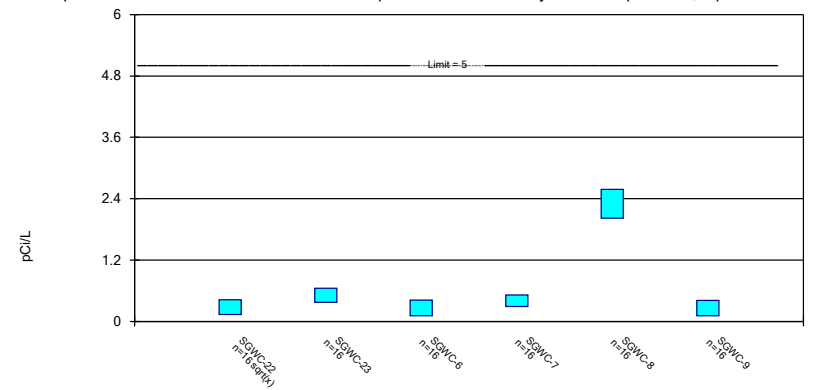
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

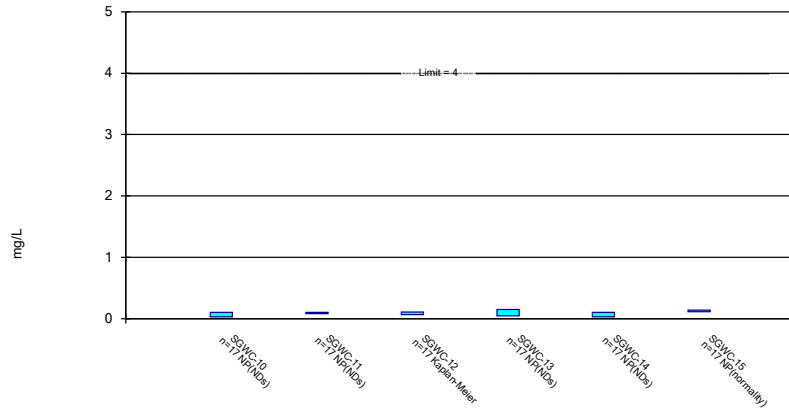
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Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

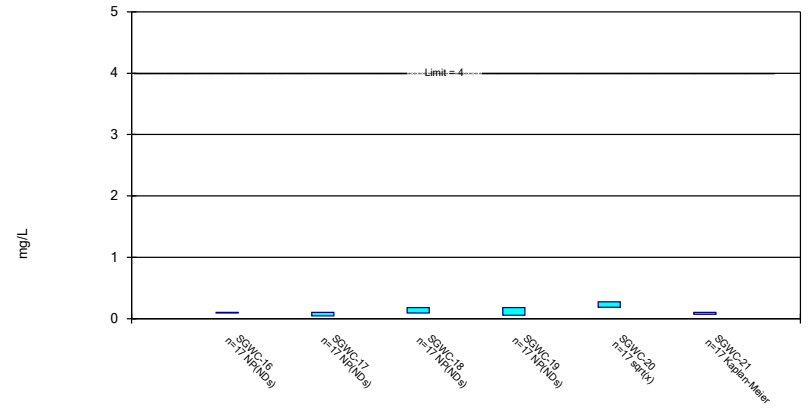
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

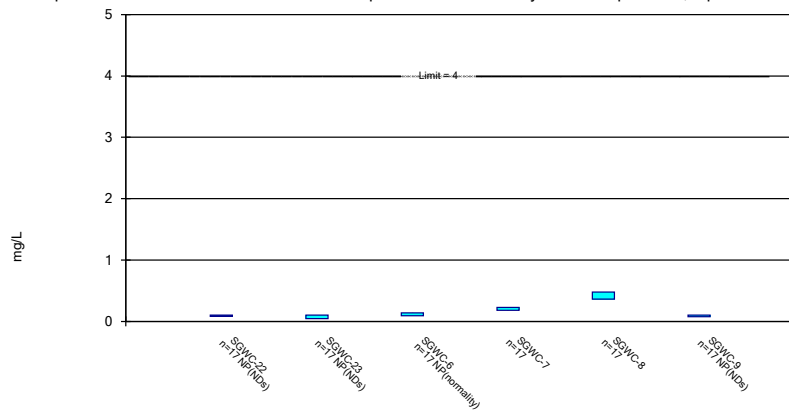
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Constituent: Fluoride, total Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Parametric and Non-Parametric (NP) Confidence Interval

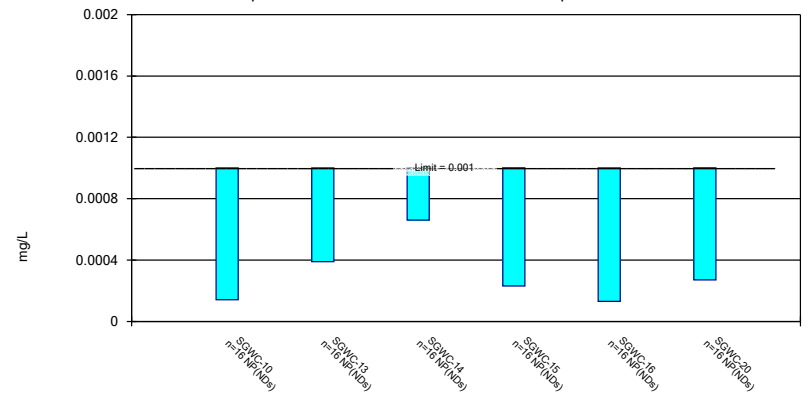
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Constituent: Fluoride, total Analysis Run 6/16/2020 2:36 PM View: Appendix IV
 Plant Scherer Client: Southern Company Data: Scherer AP

Non-Parametric Confidence Interval

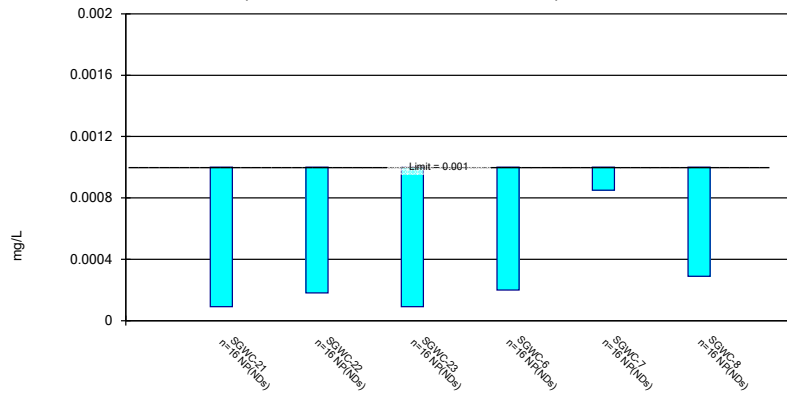
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

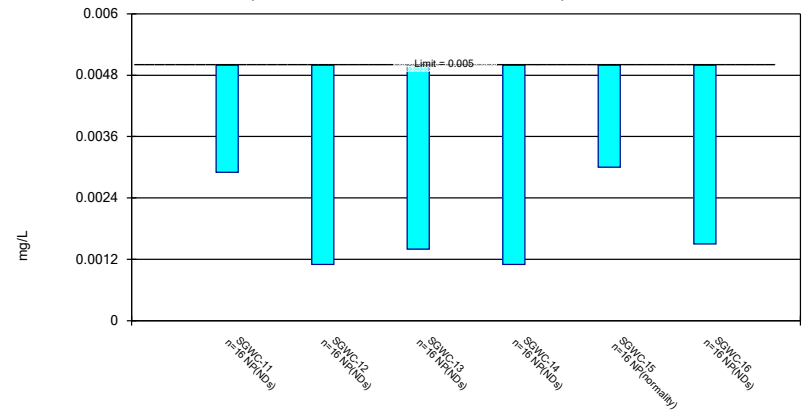
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

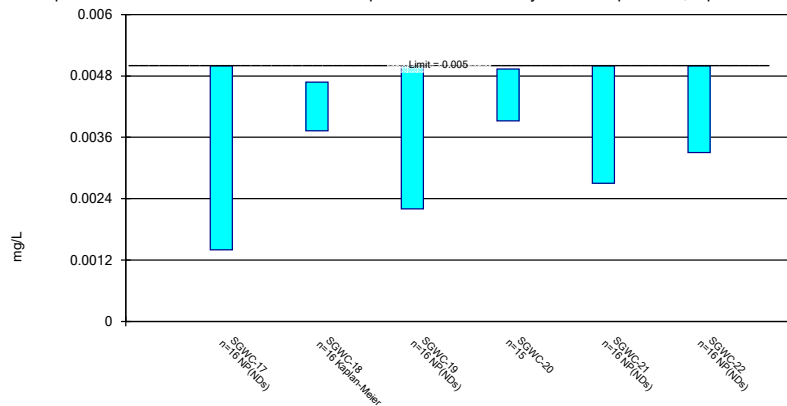
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

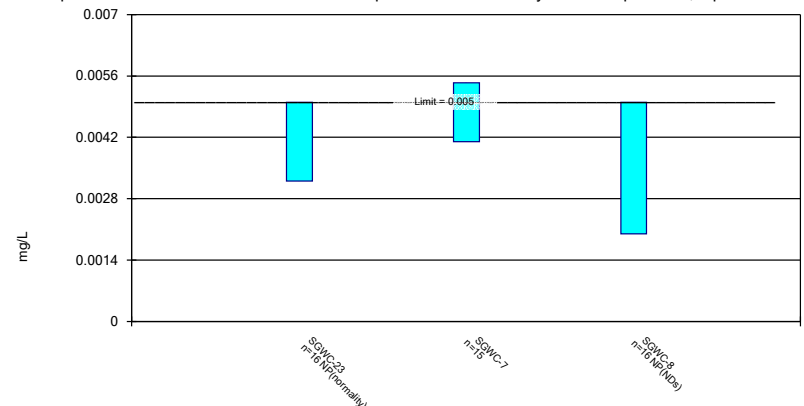
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

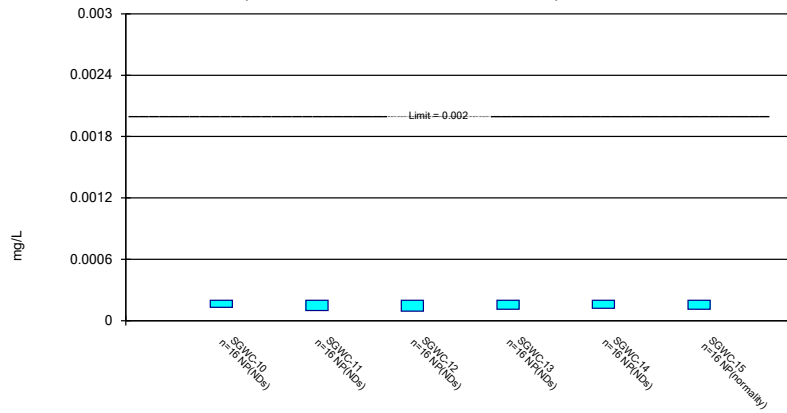
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

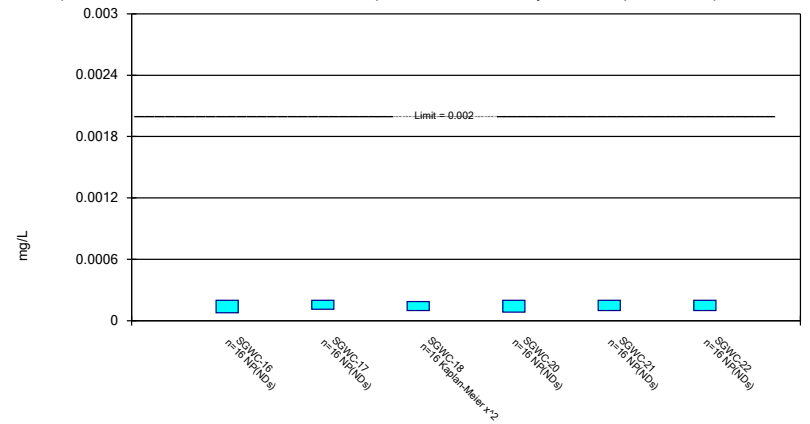
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

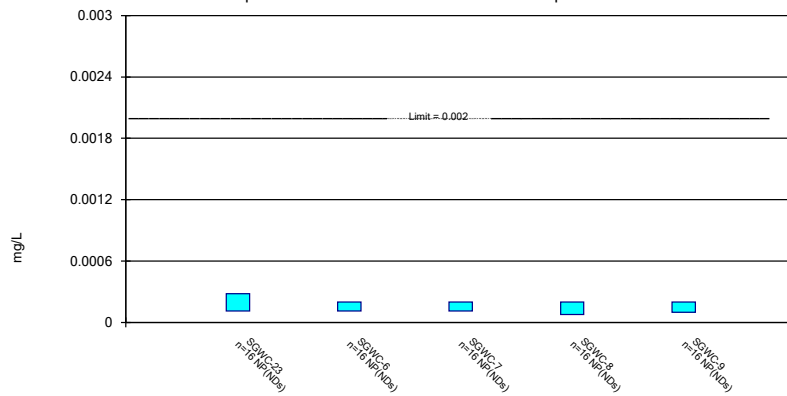
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

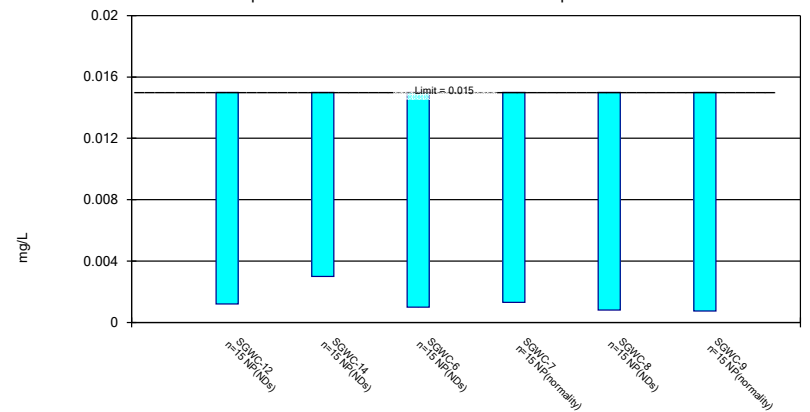
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

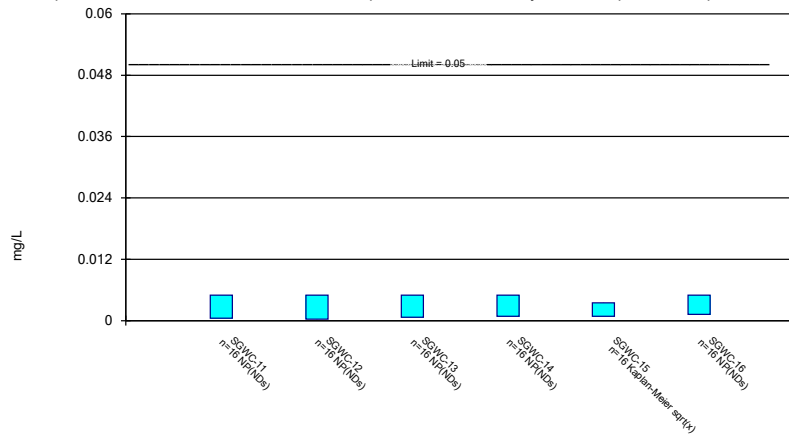
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

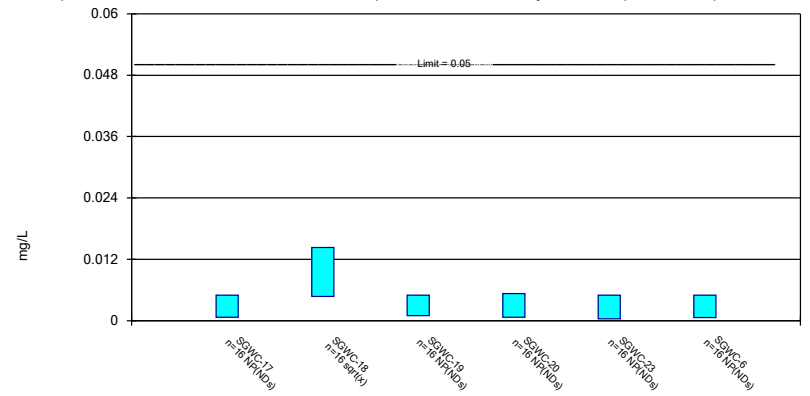
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

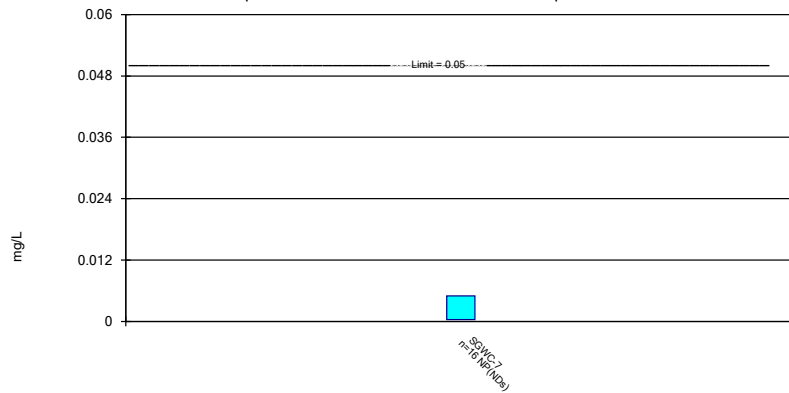
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

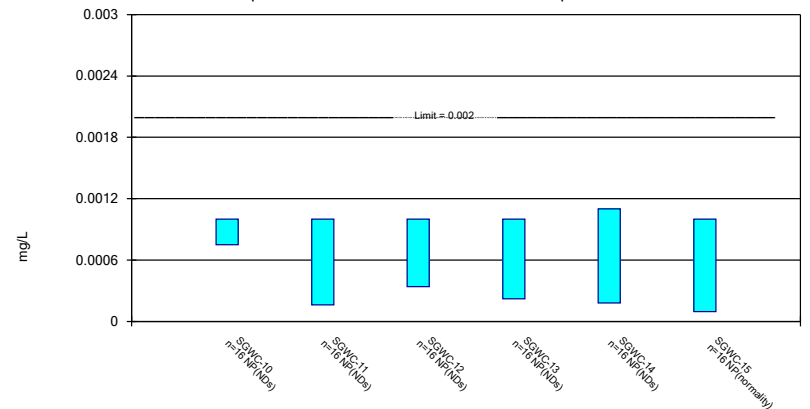
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

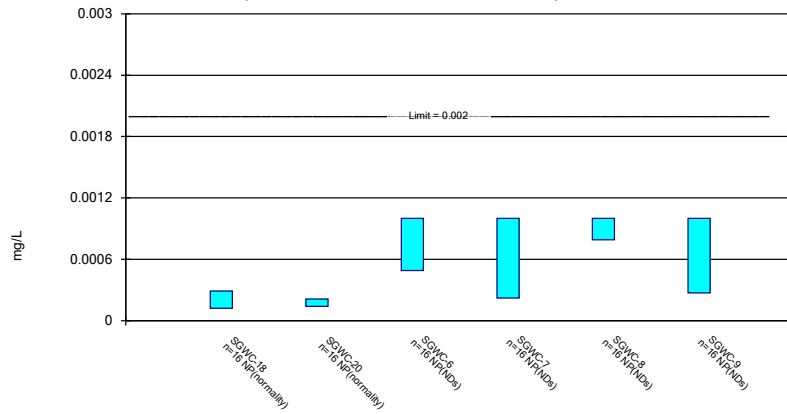
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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



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