



Prepared for

Georgia Power Company
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2020 ANNUAL GROUNDWATER MONITORING & CORRECTIVE ACTION REPORT

**GEORGIA POWER COMPANY
PLANT WANSLEY ASH POND 1 (AP-1)**

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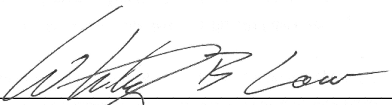
Project Number GW7327

January 2021

CERTIFICATION STATEMENT

This *2020 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Wansley – 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], specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants.





Whitney Law

Georgia Professional Engineer No. 36641

January 29, 2021
Date

EXECUTIVE SUMMARY

This summary of the 2020 Annual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program through December 2020 at Georgia Power Company's (Georgia Power's) Plant Wansley Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. Although the majority of the plant property lies within Heard County, the physical address of and entrance to the plant is 1371 Liberty Church Road, Carrollton, Carroll County, Georgia. AP-1 is a 343-acre surface impoundment located northwest of the plant (**Figure 1**) which was designed to receive and store CCR materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976. As of April 2019, all process-related flows from the plant to AP-1 have ceased.



Figure 1. Plant Wansley and the Site

Groundwater at the Site is monitored using a monitoring system comprised of 8 upgradient and 11 downgradient wells installed in 2014, 2015, and 2017 that meet federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between May 2016 to September 2017. Based on groundwater conditions at the Site, an assessment monitoring program was established in January 2018. During the 2020 annual reporting period, the Site remained in assessment monitoring.

During the 2020 reporting period, Atlantic Coast Consulting, Inc. (ACC) conducted three groundwater sampling events in February, March, and September. Groundwater samples were submitted to Eurofins TestAmerica, Inc. for analysis. Per the CCR rule, groundwater results for March and September 2020 data were evaluated in accordance

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

with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ parameters in wells provided in the table below.

Appendix III Parameter	March 2020	September 2020
Boron	WGWC-8, WGWC-9, WGWC-16	WGWC-8, WGWC-9, WGWC-16
Calcium	WGWC-8, WGWC-16	WGWC-8
Chloride	WGWC-8, WGWC-16	WGWC-8, WGWC-16
Fluoride	WGWC-9, WGWC-15, WGWC-19	WGWC-9, WGWC-15
pH	WGWC-16	WGWC-16
Sulfate	WGWC-8, WGWC-9, WGWC-16	WGWC-8, WGWC-9, WGWC-16
Total Dissolved Solids	WGWC-8, WGWC-9, WGWC-15, WGWC-16	WGWC-8, WGWC-16

Appendix IV ⁴ Parameter	March 2020	September 2020
Lithium	<i>Federal and State: WGWC-19</i> <i>State only: WGWC-8, WGWC-9</i>	<i>Federal and State: WGWC-19</i> <i>State only: WGWC-8, WGWC-9</i>

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

⁴ A state statistically significant level (SSL) related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, or the calculated background interwell prediction limit. A federal SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit.

An Alternate Source Demonstration (ASD) that presents multiple lines of evidence that the lithium groundwater concentrations detected at AP-1 are not associated with a release from AP-1 but are instead attributed to a natural source of lithium in rock formations at the Site was submitted in January 2019 (ACC, 2019). An ASD Addendum presenting supplemental data which provide additional lines of evidence that lithium groundwater concentrations are associated with naturally occurring lithium within in rock formations at the Site was submitted in November 2020 (Geosyntec, 2020d). The ASD Addendum is provided in **Appendix E**.

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

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LIST OF ACRONYMS

AP	ash pond
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
DO	dissolved oxygen
ft	feet
ft/day	feet per day
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
K_d	Distribution Coefficient
K_h	Horizontal Hydraulic Conductivity
MCL	Maximum Contaminant Level
mg/L	milligram per liter
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric turbidity units
ORP	oxidation-reduction potential
PE	professional engineer
PL	prediction limit
PWR	partially weathered rock
QA/QC	Quality Assurance/Quality Control
RL	reporting limit
SEP	sequential extraction procedure
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TDS	total dissolved solids
TOC	Top of Casing
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D] and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec has prepared this *2020 Annual Groundwater Monitoring & Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1). GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a) adopt the Federal CCR rule by reference. For ease of reference, the USEPA CCR rules are cited within this report. This report documents groundwater monitoring activities completed for AP-1 during the 2020 calendar year.

Semiannual groundwater monitoring and reporting for AP-1 is performed in accordance with the requirements of § 257.90 through § 257.95 of the Federal CCR Rule, and the Georgia EPD Rules for Solid Waste Management 394-3-4-.10(6)(a). A semiannual groundwater report documenting activities from January through August 2020 was prepared and submitted to GA EPD in August 2020 (Geosyntec, 2020a). A CCR permit application to comply with GA EPD Rules was submitted in November 2018 and is currently under review.

1.1 Site Description and Background

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. Although the majority of the plant property lies within Heard County, the physical address of and entrance to the plant is 1371 Liberty Church Road, Carrollton, Carroll County, Georgia. The plant property is bounded on the east and southeast by the Chattahoochee River, and sparsely populated, forested, rural, and agricultural land to the north, south, and west. AP-1 is a 343-acre surface impoundment located northwest of the plant (**Figure 1**) which was designed to receive and store CCR materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976. As of April 2019, all process-related flows from the plant to AP-1 have ceased.

1.2 Regional Geology & Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-1 as described in the *Hydrogeologic Assessment Report Revision 01 – Plant Wansley* (HAR Rev 01; Geosyntec, 2019) submitted to GA EPD as supporting documents for the closure permit application (Geosyntec, 2018).

1.2.1 Regional and Site Geology

Plant Wansley is located within the Piedmont Physiographic Province of western Georgia, which is characterized by gently rolling hills with locally pronounced low, linear ridges, trending northeast-southwest, and separated by valleys. Over geologic time, the Piedmont has been subjected to multiple events of uplift, folding and faulting, alternation, and erosion.

The Piedmont Province is generally underlain by a variably thick blanket of overburden, which is comprised of residual and saprolitic soils derived from the in-place weathering of bedrock. Near the ground surface, soils are generally silt- and clay-rich, with fine-sand and sand becoming more prominent with depth. With increasing depth, the weathered materials tend to retain details of the structural features of the underlying bedrock. Occasional deposits of alluvium are present in valleys and drainage features. A mantle of partially weathered rock (PWR) and the fractured surface of the bedrock in the Piedmont comprises a zone often referred to as the “transition zone.”

Bedrock in the Piedmont is predominately composed of metamorphic rock of Precambrian to Paleozoic age. The Site is underlain by several bedrock types consisting of schist, gneiss, quartzite, and amphibolite as identified in boring logs. Saprolitic soils were described at variable thickness across the Site but were generally encountered at or near ground surface. As is characteristic of this province, the Site has two pronounced ridges, one on the northwest side of AP-1 and one on the southeast side of AP-1, as well as smaller rolling hills along the western property boundary.

1.2.2 Hydrogeologic Setting

While the aquifer characteristics of each lithologic unit may vary, the groundwater is interconnected between these units, and they effectively act as one, unconfined aquifer. According to previous site investigations, the potentiometric surface is a subdued reflection of the topography. The top of bedrock surface also generally follows topography and likely controls groundwater flow direction in the uppermost aquifer, which occurs within the saprolite and PWR and is hydraulically connected to the bedrock via fractures and deeply weathered areas of the rock. Recharge is by precipitation infiltrating through the saprolite to the bedrock. Based on observations of soil types and horizontal conductivity values, the movement of groundwater in the saprolite is very slow and likely acts as flow through a low-permeability porous media. Groundwater flow in the PWR and the “transition zone” between the PWR and the fractured bedrock is

expected to be greater than in the overlying saprolite and the underlying fractured bedrock. Groundwater flow in the bedrock is restricted entirely to flow through fractures. Visual observations and geophysical logging during field investigations indicate a trend of decreasing fracture spacing and density with depth, consistent with regional geologic trends.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-1 that (1) consists of a sufficient number of wells, (2) is installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer, and (3) represents the groundwater quality both upgradient of AP-1 (i.e., background conditions) and passing the waste boundary of AP-1. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

The certified compliance monitoring well network for AP-1 consists of nineteen monitoring wells and was certified by a professional engineer (PE) on October 17, 2017; the certification is maintained in the AP-1 Operating Record and on the Georgia Power-managed webpage in accordance with § 257.105(h)(3) and § 257.107(h)(3).

Twelve piezometers, installed in 2014 and 2017, are used in combination with the compliance well network to gauge groundwater levels in the vicinity of AP-1 to refine groundwater flow direction and gradients. The piezometer network was expanded in 2020 to include PZ-22, PZ-23S, PZ-23D, PZ-24, PZ-25S, PZ-26S, PZ-26D, PZ-27S, PZ-27D, PZ-28, PZ-29S, and PZ-29D. Two groundwater characterization wells (WAMW-1 and WAMW-2) were installed in 2018.

The locations of the compliance monitoring wells, characterization wells, and piezometers are shown on **Figure 2**; well and piezometer construction details are listed in **Table 1**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during January through December 2020 and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

The AP-1 well network was re-surveyed by GEL Solutions in June 2020. The top of the well casing [top of casing (TOC)] elevation 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 America Datum of 1983 (NAD83), Georgia West State Plane, with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988 (NAVD88). The new survey data are incorporated into this report's applicable tables and figures. A memorandum was prepared to update and modify well construction details based on the updated survey data and included a copy of the well survey data certified by a Georgia-licensed surveyor, and updated boring and well construction logs for the entire AP-1 well network. The *September 2020 Well Installation Addendum* was submitted to GA EPD in September 2020 (Geosyntec, 2020c). A copy of the June 2020 certified well survey data is included in **Appendix A**.

During the reporting period, Georgia Power installed twelve piezometers (PZ-22, PZ-23S, PZ-23D, PZ-24, PZ-25S, PZ-26D, PZ-26S, PZ-27D, PZ-27S, PZ-28, PZ-29S, and PZ-29D) to provide additional data to characterize groundwater flow conditions at AP-1. The piezometers were installed between September and November 2020 per the Piezometer Installation and Field Testing Workplan submitted to GA EPD in September 2020 (Geosyntec, 2020b). The piezometer installation report that includes detailed boring and well construction logs was submitted to GA EPD under separate cover in January 2021 (Geosyntec, 2021), and is provided in **Appendix B**. Data collection from these piezometers is ongoing and recommendations to incorporate any new piezometers into the groundwater monitoring network will be documented in future semiannual reports.

The well and piezometer networks are inspected during each groundwater monitoring event using GA EPD-based inspection criteria. For this reporting period, inspections were conducted in February, March, and September 2020. Any issues identified with the wells (e.g., clogged weep holes within the outer protective casing, faded well

identification signage, rusted locks and/or latches, etc.) are addressed before the subsequent groundwater sampling event. The well inspection forms for this reporting period are provided in **Appendix C**.

2.2 Assessment Monitoring

Based on groundwater monitoring results discussed in the *2017 Annual Groundwater and Corrective Action Monitoring Report* [Atlantic Coast Consulting, Inc. (ACC), 2018], Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018.

During the reporting period discussed herein, compliance monitoring wells at AP-1 shown on **Figure 2** were sampled in February, March⁵, and September 2020. Samples collected in February 2020 were analyzed for Appendix IV constituents. Samples collected in March and September 2020 were analyzed for Appendix III constituents and Appendix IV constituents detected during the February 2020 event. The number of groundwater samples collected for analysis and the dates the samples were collected at AP-1 during this reporting period are summarized in **Table 2**. Details of these events and analytical results are discussed in Section 3, while the statistical results are discussed in Section 4.

2.3 Additional Groundwater Sampling

No additional groundwater sampling occurred during this reporting period.

⁵ Due to a suspected sample identification error at the laboratory during the March 2020 event, WGWC-19 was resampled in May 2020. The May 2020 results are reported herein.

3.0 SAMPLING METHODOLOGY & ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the groundwater monitoring program conducted at AP-1 during this reporting period.

3.1 Groundwater Level Measurement

Prior to the February, March, and September 2020 sampling event, a synoptic round of depth to groundwater level measurements were recorded from the AP-1 monitoring wells, characterization wells, and piezometers and used to calculate the corresponding groundwater elevations. Groundwater levels were measured and recorded to the nearest 0.01-foot within a 24-hour period. The calculated groundwater elevations for the February, March, and September 2020 events are presented in **Table 3**. The June 2020 survey data was used to calculate the groundwater elevations for the February, March, and September 2020 events.

The groundwater elevation data were used to prepare potentiometric surface maps for the February, March, and September 2020 events, which are presented on **Figures 3, 4, and 5**, respectively.

3.2 Groundwater Gradient and Flow Velocity

The groundwater hydraulic gradients within the uppermost aquifer at AP-1 were calculated using the groundwater elevation data from the February, March, and September 2020 events. The supporting calculations are presented in Table 4. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on Figures 3, 4, and 5. The groundwater flow patterns observed during this reporting period are consistent with historical observations. Groundwater flow across the Site is generally inward towards AP-1 with a slight component of flow to the southeast from AP-1. As presented in Table 4, the average hydraulic gradients along the groundwater flow path lines associated with AP-1 are 0.082 feet per foot (ft/ft) (PZ-1 to WGWC-17) and 0.092 ft/ft (PZ-10 to WGWC-19).

The approximate horizontal flow velocities associated with AP-1 were calculated using the following derivative of Darcy's Law. The calculations are presented on Table 4.

$$V = \text{linear velocity} = \frac{K * i}{n_e}$$

where:

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

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

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

n_e = Effective porosity

The average hydraulic conductivity for AP-1 of 2.4×10^{-4} centimeters per second (cm/sec) [0.67 feet per day (ft/day)] was computed from previous slug test data obtained from testing of wells at AP-1. An estimated effective porosity of 0.25 (based on a review of several sources, including Driscoll, 1986; Freeze and Cherry, 1979) is used to represent average conditions at AP-1. With these variables determined, and accounting for the averaged hydraulic gradient discussed above for the three 2020 events, the average calculated flow velocity for 2020 was approximately 0.22 (PZ-1 to WGWC-17) and 0.25 ft/day (PZ-10 to WGWC-19), for an average groundwater flow velocity in the vicinity of AP-1 of 0.23 ft/day. The calculated flow velocities are consistent with historical observations during previous semiannual monitoring events. Flow velocity calculations are provided in **Table 4**.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected from the compliance monitoring well network using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder pumps and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate determined by the groundwater level). Peristaltic pump samples were collected using new disposable polyethylene tubing. All non-disposable equipment was decontaminated before use and between well locations.

An Aqua Troll 400 or a SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters [i.e., pH, conductivity, oxidation-reduction potential (ORP), temperature, and dissolved oxygen (DO)] during well purging to verify stabilization prior to sampling. Turbidity was measured using a LaMotte 2100Q portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 Standard Units (s.u.).
- Conductivity \pm 10%.
- \pm 10% for DO where DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 10 nephelometric turbidity units (NTU).

Once stabilization was achieved, samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins TestAmerica, Inc. in Pittsburgh, Pennsylvania following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the 2020 assessment monitoring events are provided in **Appendix D**.

3.4 Laboratory Analyses

Laboratory analyses were performed by to Eurofins TestAmerica, Inc. in Pittsburgh, Pennsylvania, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Eurofins TestAmerica maintains a NELAP certification for the Appendix III and Appendix IV constituents analyzed for this project. In addition, the laboratory is certified to perform analysis by the State of Georgia. Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in **Appendix D**.

Samples were analyzed for Appendix IV constituents during the February 2020 event. Samples collected in March and September 2020 were analyzed for Appendix III constituents and Appendix IV constituents detected above the laboratory method detection limit (MDL) during the February 2020 event in accordance with § 257.95(b). Antimony was not detected above the laboratory MDL during the February 2020 event. The groundwater analytical results from the February, March, and September 2020 monitoring events are summarized in **Table 5**. The Eurofins TestAmerica laboratory reports associated with the results presented in **Table 5** are provided in **Appendix D**.

3.5 Quality Assurance & Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events at the rate of one set of QA/QC samples per 10 groundwater samples. One set of QA/QC samples included the following: field duplicate,

equipment blank (where non-dedicated sampling equipment was used), and field blank samples. QA/QC samples were collected in laboratory-provided bottles and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Eurofins TestAmerica.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where appropriate, the data were qualified with supporting documentation and justifications. The data are considered usable for meeting project objectives, and the results are considered valid. The associated data validation report is provided in **Appendix D** with the laboratory reports.

Values followed by a "J" flag in **Table 5** indicate that the value is an estimated analyte concentration detected between the 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 ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established groundwater protection standards (GWPS) for the Appendix IV monitoring constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the 2020 assessment monitoring events. The analyses were performed by Groundwater Stats Consulting (GSC); the resulting reports (GSC, 2020, 2021) are provided in **Appendix E**.

4.1 Statistical Methods

Analytical data from the 2020 assessment monitoring events were statistically analyzed in accordance with the PE-certified Statistical Analysis Method Certification (October 2017, amended January 2020). 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 document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009).

Appendix III statistical analysis was performed to determine if Appendix III constituents have returned to background levels. Appendix IV assessment monitoring constituents were evaluated to determine if concentrations statistically exceeded the established state and federal GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis packages provided in **Appendix E** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PL) combined with a 1-of-2 verification resample plan for each of the Appendix III constituents. Interwell PL are constructed using data from upgradient wells 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) identified. An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient compliance monitoring well exceeds the

constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared. The results are discussed in Section 4.2 and tabulated in Figure E of **Appendix E**.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPSs, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient compliance monitoring well. The confidence intervals are compared to both the state and federal GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, a statistically significant level (SSL) exceedance is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is:

- (1) The maximum contaminant level (MCL) established under § 141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.040 mg/L; and
 - (iv) Molybdenum 0.10 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

USEPA's updated GWPS have not yet been incorporated under GA EPD's CCR Rule. The GA EPD CCR Rule GWPS is:

- (1) The federally established MCL.
- (2) Where an MCL has not been established, the background concentration.

- (3) Background levels for constituents where the background level is higher than the MCL.

Following the above federal and state rule requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis presented in Figure E of **Appendix E**, Appendix III constituents have not returned to background levels and assessment monitoring should continue. Based on the statistical analyses of Appendix IV constituents as described in Section 4.1.2, during both 2020 assessment monitoring events only lithium was identified at the following wells at concentrations in excess of the state and federal GWPS:

AP-1 (Federal CCR Rule):

- Lithium: WGWC-19

AP-1 (GA EPD CCR Rule):

- Lithium: WGWC-8, WGWC-9, and WGWC-19

A groundwater exceedance notification acknowledging the March 2020 SSLs was placed in the Operating Record on August 7, 2020, pursuant to §257.95(g). The notification for September 2021 SSLs was placed in the Operating Record on January 29, 2021.

5.0 ALTERNATE SOURCE DEMONSTRATION

In accordance with § 257.94(e), Georgia Power implemented assessment monitoring in January 2018. SSLs of the Appendix IV constituent lithium were identified in multiple wells during the 2018 reporting year. In accordance with § 257.95(g)(3), Georgia Power prepared an Alternate Source Demonstration (ASD) for lithium (ACC, 2019b), which was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (ACC, 2019a). The ASD presented evidence that the source of lithium in groundwater was naturally-derived from the subsurface rock formations and did not originate from the unit.

An ASD Addendum was submitted to GA EPD under separate cover in November 2020 (Geosyntec, 2020d), and is provided in **Appendix F**. The ASD Addendum presents supplemental data collected since submittal of the 2019 ASD which provide additional lines of evidence that the lithium SSLs identified at AP-1 are associated with naturally occurring lithium within rock formations at the Site. To summarize, the ASD Addendum demonstrated that:

- Where detected (i.e., in wells WGWC-8 and WGWC-9), boron, a CCR indicator parameter, either does not show a correlation with lithium (WGWC-9), or it is negatively correlated (WGWC-8), suggesting different sources for boron and lithium. Groundwater samples from wells WGWC-10 and WGWC-19 are either non-detect for boron or have low-level estimated concentrations consistent with background conditions.
- The lack of boron detections and low concentrations of other CCR indicator parameters at WGWC-19, the well with the highest lithium detections in groundwater, further indicates that lithium in groundwater does not originate from a release of AP-1.
- Laboratory analyses of rock core samples collected from locations with lithium SSLs and from locations in proximity to locations with lithium SSLs indicate substantial total concentrations of naturally occurring lithium in the rock, with lithium concentrations ranging from 17 mg/kg (WGWC-8 and PB-3) to 130 mg/kg (PB-7).
- Laboratory analyses using sequential extraction procedures (SEPs) for rock core samples collected from boreholes corresponding to or in vicinity of wells

WGWC-8, WGWC-9, WGWC-10, and WGWC-19 indicate lithium in rock cores is associated with hydroxide-phases of iron, manganese and/or aluminum, as well as more recalcitrant fractions that will liberate lithium through natural weathering. This supports a natural occurrence of lithium in the mineral fraction that can be released to groundwater through mineral weathering.

- Using a literature-derived distribution coefficient (K_d) of 300 liters per kilogram (L/kg) to calculate predicted groundwater concentrations of lithium based on total lithium concentrations in rock indicates that observed groundwater concentrations, which are generally lower than predicted concentrations, can be explained by lithium originating from weathering of the natural formation.

Additional information will be provided to GA EPD in February 2021 to supplement the ASD Addendum, including a site-specific geologic map updated to reflect geologic data collected since submission of the 2019 ASD and an expanded geochemical discussion.

6.0 MONITORING PROGRAM STATUS

Based on the statistical analyses results, SSIs of Appendix III constituents were identified for the March and September 2020 groundwater data, thereby causing the unit to remain in the assessment monitoring program in accordance with § 257.94(e). The ASD and ASD Addendum described in Section 5.0 attributes the SSLs of lithium identified during this reporting period to naturally-occurring sources within the rock formation and not originating from AP-1. Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2020 Annual Groundwater Monitoring & Corrective Action Report* for Plant Wansley AP-1 was prepared to fulfill the requirements of USEPA's CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical evaluations of the March 2020 and September 2020 groundwater monitoring data for AP-1 confirmed the continued presence of SSLs of lithium in select AP-1 compliance monitoring wells. The 2019 ASD and 2020 ASD Addendum present multiple lines of evidence that illustrate that lithium detections in groundwater are associated with naturally occurring lithium within rock formations at the Site and are not originating from AP-1. Additional information will be provided to GA EPD in February 2021 to supplement the 2020 ASD Addendum.

As monitoring data show SSIs for Appendix III parameters, Georgia Power will continue to monitor the groundwater in the vicinity of AP-1 in accordance with the assessment monitoring program regulations. The initial annual Appendix IV sampling event is scheduled to occur in February 2021, with the first semiannual assessment monitoring event tentatively planned for March 2021.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Hydraulic Location/ Purpose	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation ⁽²⁾ (ft NAVD88)	Top of Casing Elevation ⁽²⁾ (ft NAVD88)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation ⁽²⁾ (ft NAVD88)	Bottom of Screen Elevation ⁽²⁾ (ft NAVD88)	Well Depth (ft BTOC) ⁽³⁾	Screen Interval Length (ft)
Compliance Monitoring Well											
WGWA-1	Upgradient	10/21/2015	1250656.10	2035580.71	780.37	782.93	119.56	663.37	653.37	130.56	10
WGWA-2	Upgradient	10/16/2015	1251556.40	2035590.11	755.77	758.23	92.46	665.77	655.77	102.46	10
WGWA-3	Upgradient	12/15/2014	1240848.21	2022350.10	826.63	828.91	8.68	820.23	810.23	19.08	10
WGWA-4	Upgradient	01/13/2015	1240879.58	2022339.66	831.33	834.34	53.91	780.43	760.43	74.31	20
WGWA-5	Upgradient	12/23/2014	1241997.94	2022368.85	899.28	902.15	13.27	888.88	878.88	23.66	10
WGWA-6	Upgradient	01/13/2015	1241932.02	2022360.58	894.62	897.13	74.51	822.62	792.62	104.91	30
WGWA-7	Upgradient	12/22/2014	1243338.63	2023843.81	894.49	897.33	29.64	867.69	857.69	40.04	10
WGWA-18	Upgradient	12/16/2014	1244592.56	2025580.71	875.47	878.02	29.55	848.47	838.47	39.95	10
WGWC-8	Downgradient	10/29/2015	1242929.40	2029644.58	777.70	780.08	49.38	730.70	720.70	59.38	10
WGWC-9	Downgradient	12/4/2014	1242801.12	2029115.75	809.33	812.03	51.10	760.93	750.93	61.50	10
WGWC-10	Downgradient	10/27/2015	1240971.96	2026725.61	809.61	812.38	138.77	673.61	663.61	148.77	10
WGWC-11	Downgradient	12/8/2014	1240860.18	2025773.39	821.44	823.96	40.82	783.14	773.14	51.22	10
WGWC-12	Downgradient	10/22/2015	1240827.68	2025755.99	820.57	823.04	66.47	756.57	746.57	76.47	10
WGWC-13	Downgradient	11/4/2015	1240610.93	2024585.91	807.32	809.78	75.46	734.32	714.32	95.46	20
WGWC-14A	Downgradient	01/31/2017	1240604.54	2024599.63	808.20	810.94	32.74	778.20	768.20	42.74	10
WGWC-15	Downgradient	11/11/2015	1240483.16	2023912.92	802.03	804.69	46.16	758.53	748.53	56.16	10
WGWC-16	Downgradient	11/11/2015	1240480.46	2023903.77	801.72	804.21	24.49	779.72	769.72	34.50	10
WGWC-17	Downgradient	11/06/2015	1240052.06	2022623.82	813.36	816.00	85.94	730.06	720.06	95.64	10
WGWC-19	Downgradient	10/28/2015	1241851.51	2028949.19	780.60	783.42	84.82	698.60	688.60	94.82	10
Piezometer											
PZ-1	Piezometer	12/12/2014	1240249.86	2022319.93	853.91	856.72	38.91	817.81	807.81	49.31	10
PZ-4	Piezometer	12/22/2014	1242592.03	2023595.91	886.13	889.01	10.08	878.93	868.93	20.48	10
PZ-6	Piezometer	12/17/2014	1244382.89	2024661.39	912.30	915.15	16.55	898.60	888.60	26.95	10
PZ-8	Piezometer	12/15/2014	1245514.59	2026807.30	864.65	867.29	30.44	836.85	826.85	40.84	10
PZ-10	Piezometer	12/05/2014	1242058.41	2028554.29	829.26	832.02	21.56	810.46	800.46	31.96	10
PZ-11	Piezometer	12/05/2014	1240578.87	2026933.09	820.21	823.09	23.38	799.71	789.71	33.78	10
PZ-12	Piezometer	12/08/2014	1240837.96	2026731.01	816.17	818.74	39.37	779.37	769.37	49.77	10
PZ-15	Piezometer	12/10/2014	1240457.61	2025105.38	824.59	826.86	31.07	795.79	785.79	41.47	10
PZ-16	Piezometer	12/11/2014	1239419.77	2023662.22	798.05	800.70	15.65	785.05	775.05	26.15	10
PZ-17	Piezometer	12/11/2014	1239270.02	2023086.50	828.54	831.01	41.17	789.84	779.84	51.57	10
PZ-18	Piezometer	12/11/2014	1239569.52	2022299.20	812.10	814.51	26.31	788.20	778.20	36.71	10
PZ-20	Piezometer	01/31/2017	1243496.86	2030132.73	784.45	787.30	27.85	759.45	749.45	37.85	10
PZ-22	Piezometer	09/29/2020	1243350.76	2029769.43	804.88	807.95	32.77	775.18	765.18	43.17	10
PZ-23S	Piezometer	10/02/2020	1242139.33	2028512.65	831.79	834.41	61.30	773.11	763.11	71.70	10
PZ-23D	Piezometer	10/02/2020	1242139.53	2028520.87	831.89	834.32	84.40	749.92	739.92	94.80	10
PZ-24	Piezometer	10/18/2020	1241695.25	2028116.05	807.00	810.37	33.45	776.92	766.92	43.85	10
PZ-25S	Piezometer	10/04/2020	1240769.79	2027414.58	820.50	823.80	43.40	780.40	770.40	53.80	10
PZ-26S	Piezometer	10/17/2020	1239916.68	2024139.82	802.22	804.80	30.37	774.43	764.43	40.77	10
PZ-26D	Piezometer	10/12/2020	1239919.45	2024146.35	802.31	804.93	69.70	735.23	725.23	80.10	10
PZ-27S	Piezometer	10/28/2020	1240184.18	2023616.69	805.98	808.98	29.47	779.51	769.51	39.87	10
PZ-27D	Piezometer	10/15/2020	1240190.93	2023620.36	806.22	809.28	71.32	737.96	727.96	81.72	10
PZ-28	Piezometer	10/29/2020	1240066.02	2022624.73	813.57	816.18	62.50	753.68	743.68	72.90	10
PZ-29S	Piezometer	10/31/2020	1244317.13	2028839.68	805.80	805.30	35.02	770.28	760.28	45.42	10
PZ-29D	Piezometer	11/01/2020	1244304.90	2028853.29	805.77	805.24	116.55	688.69	678.69	126.95	10
Characterization Monitoring Well											
WAMW-1	Characterization	09/16/2018	1241843.66	2028944.63	780.05	782.66	114.26	668.40	658.40	124.55	10
WAMW-2	Characterization	09/14/2018	1241547.56	2028806.27	768.39	770.82	76.63	694.19	684.19	86.91	10

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey data obtained June 16, 2020.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data obtained in June 16, 2020.

(3) Total well depth accounts for sump if data provided on well construction logs.

Table 2
Groundwater Sampling Event Summary
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Hydraulic Location	Feb 3 - 7, 2020	Mar 16 - 19, 2020	Sept 21 - 24, 2020	Status of Monitoring Well
Purpose of Sampling Event:		Appendix IV Annual	Assessment	Assessment	
<i>Compliance Monitoring Well</i>					
WGWA-1	Upgradient	S03	A05	A06	Assessment
WGWA-2	Upgradient	S03	A05	A06	Assessment
WGWA-3	Upgradient	S03	A05	A06	Assessment
WGWA-4	Upgradient	S03	A05	A06	Assessment
WGWA-5	Upgradient	S03	A05	A06	Assessment
WGWA-6	Upgradient	S03	A05	A06	Assessment
WGWA-7	Upgradient	S03	A05	A06	Assessment
WGWA-18	Upgradient	S03	A05	A06	Assessment
WGWC-8	Downgradient	S03	A05	A06	Assessment
WGWC-9	Downgradient	S03	A05	A06	Assessment
WGWC-10	Downgradient	S03	A05	A06	Assessment
WGWC-11	Downgradient	S03	A05	A06	Assessment
WGWC-12	Downgradient	S03	A05	A06	Assessment
WGWC-13	Downgradient	S03	A05	A06	Assessment
WGWC-14A	Downgradient	S03	A05	A06	Assessment
WGWC-15	Downgradient	S03	A05	A06	Assessment
WGWC-16	Downgradient	S03	A05	A06	Assessment
WGWC-17	Downgradient	S03	A05	A06	Assessment
WGWC-19	Downgradient	S03	A05	A06	Assessment

Notes:

S## = Annual Appendix IV sampling event number since program initiation in January 2018.

A## = Semiannual assessment monitoring event number since program initiation in January 2018.

Table 3
Summary of Groundwater Elevations
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Top of Casing Elevation ⁽¹⁾ (ft NADV88)	February 3, 2020		March 16, 2020		September 8, 2020	
		Depth to Water (ft BTOC)	Groundwater Elevations (ft NAVD88)	Depth to Water (ft BTOC)	Groundwater Elevations (ft NAVD88)	Depth to Water (ft BTOC)	Groundwater Elevations (ft NAVD88)
<i>Compliance Monitoring Well</i>							
WGWA-1	782.93	23.35	759.58	19.49	763.44	27.86	755.07
WGWA-2	758.23	8.29	749.94	7.88	750.35	11.72	746.51
WGWA-3	828.91	2.64	826.27	2.04	826.87	4.43	824.48
WGWA-4	834.34	3.47	830.87	1.18	833.16	7.12	827.22
WGWA-5	902.15	11.17	890.98	7.04	895.11	17.89	884.26
WGWA-6	897.13	13.05	884.08	7.95	889.18	17.81	879.32
WGWA-7	897.33	22.55	874.78	15.29	882.04	28.16	869.17
WGWA-18	878.02	18.05	859.97	10.25	867.77	21.24	856.78
WGWC-8	780.08	2.51	777.57	1.95	778.13	6.29	773.79
WGWC-9	812.03	18.20	793.83	16.31	795.72	20.59	791.44
WGWC-10	812.38	14.95	797.43	11.00	801.38	16.70	795.68
WGWC-11	823.96	17.60	806.36	12.20	811.76	24.82	799.14
WGWC-12	823.04	17.31	805.73	12.14	810.90	24.49	798.55
WGWC-13	809.78	16.81	792.97	14.48	795.30	23.33	786.45
WGWC-14A	810.94	15.26	795.68	12.28	798.66	24.27	786.67
WGWC-15	804.69	17.50	787.19	15.56	789.13	19.51	785.18
WGWC-16	804.21	19.96	784.25	14.46	789.75	18.95	785.26
WGWC-17	816.00	27.79	788.21	25.00	791.00	29.23	786.77
WGWC-19	783.42	18.32	765.10	15.73	767.69	20.02	763.40
<i>Piezometer</i>							
PZ-1	856.72	38.09	818.63	35.80	820.92	38.14	818.58
PZ-4	889.01	14.46	874.55	14.90	874.11	19.99	869.02
PZ-6	915.15	17.18	897.97	16.23	898.92	24.65	890.50
PZ-8	867.29	30.78	836.51	28.28	839.01	29.49	837.80
PZ-10	832.02	24.67	807.35	23.33	808.69	28.93	803.09
PZ-11	823.09	18.88	804.21	16.60	806.49	23.09	800.00
PZ-12	818.74	24.55	794.19	21.08	797.66	26.98	791.76
PZ-15	826.86	25.8	801.06	18.07	808.79	26.83	800.03
PZ-16	800.70	10.37	790.33	9.60	791.10	12.83	787.87
PZ-17	831.01	35.16	795.85	32.54	798.47	36.65	794.36
PZ-18	814.51	13.31	801.20	10.76	803.75	18.87	795.64
PZ-20	787.30	11.55	775.75	8.07	779.23	16.78	770.52
<i>Characterization Monitoring Well</i>							
WAMW-1	782.66	19.24	763.42	16.96	765.70	20.41	762.25
WAMW-2	770.82	12.31	758.51	10.61	760.21	13.76	757.06

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Survey completed by GEL Solutions obtained June 16, 2020. Elevations referenced to the North American Vertical Datum of 1988 (ft NAVD88).

Table 4
Horizontal Groundwater Gradient and Flow Velocity Calculations
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Flow Path Direction	K _h (ft/d)	n	February 3, 2020					March 16, 2020					September 8, 2020				
			h ₁ (ft)	h ₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	V (ft/d) ⁽¹⁾	h ₁ (ft)	h ₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	V (ft/d) ⁽¹⁾	h ₁ (ft)	h ₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	V (ft/d) ⁽¹⁾
PZ-1 to WGWC-17	0.67	0.25	818.63	788.21	373	0.082	0.22	820.92	791.00	373	0.080	0.21	818.58	786.77	373	0.085	0.23
PZ-10 to WGWC-19	0.67	0.25	807.35	765.10	446	0.095	0.25	808.69	767.69	446	0.092	0.25	803.09	763.40	446	0.089	0.24

Flow Path Direction	K _h (ft/d)	n	Averaged for 2020		
			Δh/Δl (ft/ft)	V (ft/d) ⁽¹⁾	V (ft/d) ⁽²⁾
PZ-1 to WGWC-17	0.67	0.25	0.082	0.22	0.23
PZ-10 to WGWC-19	0.67	0.25	0.092	0.25	

Notes:

ft = feet

ft/d = feet per day

ft/ft = feet per foot

K_h = horizontal hydraulic conductivity

n = effective porosity

h₁, h₂ = groundwater elevation at identified wells

Δh/Δl = hydraulic gradient

Δh = change in groundwater elevation between identified wells

Δl = distance between identified wells

V = groundwater flow velocity

(1) Groundwater flow velocity equation: $V = [K * (\Delta h / \Delta l)] / n$

(2) Average groundwater flow velocity for unit.

Table 5
Summary of Groundwater Analytical Data
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWA-1	WGWA-1	WGWA-1	WGWA-2	WGWA-2	WGWA-2	WGWA-3	WGWA-3	WGWA-3	WGWA-4	WGWA-4	WGWA-4
	Sample Date:	2/3/2020	3/16/2020	9/22/2020	2/3/2020	3/16/2020	9/21/2020	2/4/2020	3/17/2020	9/21/2020	2/4/2020	3/17/2020	9/21/2020
	Parameter ^(1,2,4,5)												
Appendix III	Boron	--	<0.039	<0.039	--	0.048 J	<0.039	--	<0.039	<0.039	--	<0.039	<0.039
	Calcium*	--	1.1	1.2	--	10	13	--	1.7	1.8	--	15	16
	Chloride*	--	4.3	4.0	--	2.7	2.5	--	1.8	1.5	--	1.4	1.2
	Fluoride	0.032 J	0.042 J	<0.026	0.061 J	0.052 J	0.037 J	0.031 J	0.040 J	<0.026	0.13	0.11	0.091 J
	pH ⁽³⁾	5.40	5.29	5.09	6.09	6.01	6.05	5.66	5.61	5.35	7.29	6.83	6.81
	Sulfate*	--	0.42 J	<0.38	--	1.3	1.1	--	1.2	0.77 J	--	12	7.7
	TDS*	--	23	24	--	90	100	--	20	22	--	100	92
Appendix IV	Antimony	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--
	Arsenic	<0.00031	0.00038 J	<0.00031	<0.00031	0.00043 J	<0.00031	<0.00031	<0.00031	<0.00031	0.00033 J	<0.00031	<0.00031
	Barium	0.053	0.046	0.048	0.045	0.026	0.024	0.019	0.013	0.015	0.0087 J	0.0059 J	0.0060 J
	Beryllium	<0.00018	0.00071 J	<0.00018	<0.00018	0.00076 J	<0.00018	<0.00018	0.00021 J	<0.00018	<0.00018	<0.00018	<0.00018
	Cadmium	<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	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00062	0.00092 J	0.00072 J	0.00068	0.00066 J	0.00054 J	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Fluoride	0.032 J	0.042 J	<0.026	0.061 J	0.052 J	0.037 J	0.031 J	0.040 J	<0.026	0.13	0.11	0.091 J
	Lead	<0.00013	0.00021 J	<0.00013	0.00013 J	0.00018 J	<0.00013	0.00013 J	0.00019 J	<0.00013	0.00019 J	0.00016 J	<0.00013
	Lithium ⁺	<0.0034	0.0053	0.0036 J	0.0085	0.0083	0.0075	<0.0034	<0.0034	<0.0034	0.0055	0.0059	0.0050
	Mercury	<0.00010	<0.00010	<0.00013	<0.00010	<0.00010	<0.00013	0.00016 J	<0.00010	<0.00013	0.00011 J	<0.00010	<0.00013
	Molybdenum	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
	Comb. Radium 226/228	0.283 U	0.394 U	0.729	0.0879 U	0.289 U	0.418 U	-0.107 U	-0.139 U	0.0688 U	1.49	0.964	1.07
	Selenium	<0.0015	<0.0015	<0.0015	<0.0015	0.0026 J	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Thallium	<0.00015	0.00036 J	<0.00015	0.00020 J	0.00030 J	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015

Notes:

-- = Parameter was not analyzed

J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)

< = Indicated the parameter was not detected above the applicable laboratory method detection limit (MDL).

TDS = total dissolved solids

U = Indicates the parameter was not detected above the minimum detection concentration (MDC, specific to combined radium)

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6020B, Mercury was analyzed by EPA Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

(4) Appendix III parameters with a "*" exhibited statistically significant increases (SSIs) over background concentrations at WGWC-8 during the March 2020 and September 2020 assessment monitoring events.

(5) Appendix IV parameters with a "+" exhibited statistically significant levels (SSLs) over established Groundwater Protection Standards (GWPS) at WGWC-8, WGWC-9, and WGWC-19 during the March 2020 and September 2020 assessment monitoring events.

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWA-5	WGWA-5	WGWA-5	WGWA-6	WGWA-6	WGWA-6	WGWA-7	WGWA-7	WGWA-7	WGWA-18	WGWA-18	WGWA-18
	Sample Date:	2/4/2020	3/17/2020	9/21/2020	2/4/2020	3/17/2020	9/22/2020	2/5/2020	3/17/2020	9/22/2020	2/5/2020	3/17/2020	9/22/2020
	Parameter ^(1,2,4,5)												
Appendix III	Boron	--	<0.039	<0.039	--	<0.039	<0.039	--	<0.039	<0.039	--	<0.039	<0.039
	Calcium*	--	1.4	58	--	26	25	--	0.82	0.89	--	10	19
	Chloride*	--	1.6	1.5	--	1.7	1.4	--	2.2	1.8	--	2.3	2.1
	Fluoride	<0.026	<0.026	<0.026	0.13	0.037 J	0.068 J	0.026 J	0.044 J	<0.026	0.12	<0.026	0.10
	pH ⁽³⁾	5.3	5.34	6.78	7.74	7.95	7.4	5.54	5.32	5.36	6.73	6.36	7.18
	Sulfate*	--	4.0	1.5	--	12	8.0	--	0.86 J	0.38 J	--	8.5	9.0
	TDS*	--	18	190	--	120	130	--	19	15	--	81	96
Appendix IV	Antimony	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--
	Arsenic	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	0.00058 J	<0.00031	<0.00031
	Barium	0.022	0.017	0.032	0.013	0.0081 J	0.0079 J	0.012	0.012	0.013	0.020	0.013	0.015
	Beryllium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00041 J	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
	Cadmium	<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	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00082	0.00066 J	0.0065	<0.00013	0.00014 J	<0.00013	0.00021 J	0.00065 J	0.00015 J	0.0027	0.0017 J	0.00033 J
	Fluoride	<0.026	<0.026	<0.026	0.13	0.037 J	0.068 J	0.026 J	0.044 J	<0.026	0.12	<0.026	0.10
	Lead	0.00024 J	<0.00013	<0.00013	<0.00013	0.00017 J	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Lithium ⁺	<0.0034	<0.0034	<0.0034	0.0053	0.0055	0.0049 J	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034
	Mercury	<0.00010	<0.00010	<0.00013	<0.00010	<0.00010	<0.00013	<0.00010	<0.00010	<0.00013	<0.00010	<0.00010	<0.00013
	Molybdenum	<0.00061	<0.00061	0.0025 J	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	0.00097 J
	Comb. Radium 226/228	0.198 U	0.207 U	0.954	8.30	8.88	7.65	-0.0263 U	0.258 U	0.0523 U	0.327 U	0.600 U	0.557 U
	Selenium	<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	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	0.00026 J	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-8	WGWC-8	WGWC-8	WGWC-9	WGWC-9	WGWC-9	WGWC-10	WGWC-10	WGWC-10	WGWC-11	WGWC-11	WGWC-11
	Sample Date:	2/7/2020	3/19/2020	9/22/2020	2/5/2020	3/19/2020	9/23/2020	2/5/2020	3/18/2020	9/23/2020	2/5/2020	3/18/2020	9/24/2020
	Parameter ^(1,2,4,5)												
Appendix III	Boron	--	2.2	2.5	--	0.55	0.68	--	0.049 J	<0.039	--	<0.039	<0.039
	Calcium*	--	79	81	--	9.3	10	--	7.5	7.7	--	1.6	5.2
	Chloride*	--	98	100	--	2.1	2.4	--	1.5	1.3	--	3.2	1.0
	Fluoride	0.25	0.057 J	0.14	1.3	1.0	0.82	0.14	0.052 J	0.090 J	0.045 J	<0.026	0.18
	pH ⁽³⁾	5.38	6.43	5.17	6.54	6.6	5.8	6.42	6.40	6.14	5.89	5.89	5.5
	Sulfate*	--	200	200	--	45	54	--	2.1	1.8	--	1.6	2.7
	TDS*	--	540	600	--	160	150	--	58	50	--	26	60
Appendix IV	Antimony	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--
	Arsenic	0.0011	0.00071 J	0.0011	<0.00031	<0.00031	<0.00031	0.00035 J	<0.00031	<0.00031	<0.00031	<0.00031	0.00051 J
	Barium	<0.0016	<0.0016	<0.0016	0.0022 J	0.0021 J	<0.0016	0.061	0.035	0.035	0.047	0.038	0.061
	Beryllium	0.0023	0.0028	0.0025	0.00040 J	0.00056 J	0.00034 J	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
	Cadmium	<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	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0022	<0.0015	0.0018 J	<0.0015	<0.0015	<0.0015
	Cobalt	0.0011	0.00092 J	0.00065 J	<0.00013	<0.00013	<0.00013	0.0013	0.0012 J	0.00062 J	0.00026 J	0.00069 J	<0.00013
	Fluoride	0.25	0.057 J	0.14	1.3	1.0	0.82	0.14	0.052 J	0.090 J	0.045 J	<0.026	0.18
	Lead	<0.00013	0.00016 J	0.00013 J	<0.00013	<0.00013	<0.00013	0.00016 J	0.00021 J	0.00013 J	<0.00013	<0.00013	0.00037 J
	Lithium ⁺	0.014	0.015	0.013	0.034	0.039	0.033	0.0061	0.0071	0.0054	<0.0034	<0.0034	<0.0034
	Mercury	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Molybdenum	<0.00061	<0.00061	<0.00061	0.0044 J	0.0042 J	0.0027 J	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	0.0017 J
	Comb. Radium 226/228	1.66	1.21	1.75	-0.137 U	0.230 U	0.0587 U	0.0961 U	0.461 U	0.442 U	0.163 U	0.866	1.20
	Selenium	0.0048 J	0.0037 J	0.0039 J	0.0033 J	0.0033 J	0.0029 J	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Thallium	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-12	WGWC-12	WGWC-12	WGWC-13	WGWC-13	WGWC-13	WGWC-14A	WGWC-14A	WGWC-14A	WGWC-15	WGWC-15	WGWC-15
	Sample Date:	2/5/2020	3/18/2020	9/23/2020	2/5/2020	3/19/2020	9/24/2020	2/5/2020	3/19/2020	9/24/2020	2/7/2020	3/18/2020	9/23/2020
	Parameter ^(1,2,4,5)												
Appendix III	Boron	--	0.039 J	<0.039	--	0.053 J	<0.039	--	0.039 J	<0.039	--	0.071 J	<0.039
	Calcium*	--	14	13	--	5.0	1.4	--	0.89	0.99	--	30	32
	Chloride*	--	3.2	2.8	--	1.3	1.6	--	1.9	3.1	--	1.7	1.5
	Fluoride	0.098 J	0.033 J	0.064 J	0.20	0.15	<0.026	0.040 J	<0.026	0.028 J	0.79	0.71	0.63
	pH ⁽³⁾	6.76	6.93	6.42	6.44	6.56	6.29	5.52	5.49	5.16	7.66	7.73	7.35
	Sulfate*	--	12	12	--	4.0	0.63 J	--	1.5	1.2	--	17	21
	TDS*	--	73	90	--	95	21	--	18	24	--	160	150
Appendix IV	Antimony	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--
	Arsenic	<0.00031	<0.00031	<0.00031	0.00048 J	0.00039 J	<0.00031	<0.00031	<0.00031	<0.00031	0.0010	0.00088 J	0.00061 J
	Barium	0.016	0.016	0.016	0.052	0.072	0.038	0.077	0.031	0.034	0.022	0.021	0.027
	Beryllium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00024 J	0.00025 J	0.00024 J	<0.00018	<0.00018	<0.00018
	Cadmium	<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	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0017 J	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00058	0.00071 J	0.00039 J	<0.00013	<0.00013	0.00032 J	0.0044	0.0039	0.0035	<0.00013	<0.00013	<0.00013
	Fluoride	0.098 J	0.033 J	0.064 J	0.20	0.15	<0.026	0.040 J	<0.026	0.028 J	0.79	0.71	0.63
	Lead	<0.00013	<0.00013	<0.00013	0.00045 J	0.00060 J	<0.00013	<0.00013	0.00017 J	0.00018 J	<0.00013	<0.00013	<0.00013
	Lithium ⁺	0.0063	0.0081	0.0070	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	0.0068	0.0086	0.0071
	Mercury	<0.00010	<0.00010	<0.00013	<0.00010	<0.00010	<0.00013	<0.00010	<0.00010	<0.00013	<0.00010	<0.00010	<0.00013
	Molybdenum	<0.00061	<0.00061	<0.00061	0.0012 J	0.0018 J	<0.00061	<0.00061	<0.00061	<0.00061	0.0024 J	0.0020 J	0.0031 J
	Comb. Radium 226/228	0.225 U	-0.0262 U	0.785	0.609	0.470	1.02	0.500	0.376 U	0.796	0.125 U	0.303 U	0.448 U
	Selenium	<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	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	0.00022 J	0.00017 J	<0.00015	<0.00015	<0.00015	<0.00015

Table 5
Summary of Groundwater Analytical Data
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-16	WGWC-16	WGWC-16	WGWC-17	WGWC-17	WGWC-17	WGWC-19	WGWC-19	WGWC-19
	Sample Date:	2/7/2020	3/18/2020	9/23/2020	2/7/2020	3/18/2020	9/23/2020	2/7/2020	5/4/2020	9/23/2020
	Parameter ^(1,2,4,5)									
Appendix III	Boron	--	2.0	1.5	--	0.049 J	<0.039	--	<0.039	<0.039
	Calcium*	--	66	43	--	6.3	5.9	--	15	13
	Chloride*	--	93	58	--	1.5	1.2	--	2.8	2.6
	Fluoride	0.072 J	0.084 J	0.049 J	0.079 J	<0.026	0.050 J	0.35	0.36	0.25
	pH ⁽³⁾	5.17	5.08	5.05	6.34	6.30	5.89	7.08	7.11	6.59
	Sulfate*	--	120	85	--	4.2	4.4	--	4.5	3.0
	TDS*	--	370	250	--	98	60	--	110	94
Appendix IV	Antimony	<0.00038	--	--	<0.00038	--	--	<0.00038	--	--
	Arsenic	<0.00031	<0.00031	<0.00031	0.00075 J	0.00054 J	0.00067 J	<0.00031	<0.00031	<0.00031
	Barium	0.034	0.034	0.037	0.011	0.012	0.012	0.0065 J	<0.0016	<0.0016
	Beryllium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
	Cadmium	<0.00022	0.00022 J	0.00022 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00016 J	0.00016 J	<0.00013	0.00077	0.00052 J	0.00090 J	0.00024 J	0.00018 J	0.00024 J
	Fluoride	0.072 J	0.084 J	0.049 J	0.079 J	<0.026	0.050 J	0.35	0.36	0.25
	Lead	<0.00013	<0.00013	<0.00013	<0.00013	0.00020 J	<0.00013	<0.00013	<0.00013	<0.00013
	Lithium ⁺	0.0053	0.0057	0.0059	0.0045 J	0.0054	0.0056	0.044	0.049	0.056
	Mercury	<0.00010	<0.00010	<0.00013	<0.00010	<0.00010	<0.00013	<0.00010	<0.00013	<0.00013
	Molybdenum	<0.00061	<0.00061	<0.00061	0.0025 J	0.0024 J	0.0027 J	0.0014 J	0.0013 J	0.0013 J
	Comb. Radium 226/228	0.797	0.437	0.276 U	0.244 U	0.0655 U	0.643	0.200 U	0.0697 U	1.18
	Selenium	0.0036 J	0.0046 J	0.0028 J	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Thallium	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	

Table 6
Summary of Background Concentrations and Groundwater Protection Standards
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Analyte	Units	Background ^(1,2)	Federal GWPS ^(1,3)	State GWPS ^(1,4)
Antimony	mg/L	0.0022	0.006	0.006
Arsenic	mg/L	0.0014	0.01	0.01
Barium	mg/L	0.062	2	2
Beryllium	mg/L	0.0025	0.004	0.004
Cadmium	mg/L	0.0025	0.005	0.005
Chromium	mg/L	0.0049	0.1	0.1
Cobalt	mg/L	0.013	0.013	0.013
Fluoride	mg/L	0.284	4	4
Lead	mg/L	0.001	0.015	0.001
Lithium	mg/L	0.009	0.040	0.009
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.015	0.1	0.015
Selenium	mg/L	0.005	0.05	0.05
Thallium	mg/L	0.001	0.002	0.002
Combined Radium-226/228	pCi/L	10.4	10.4	10.4

Notes:

"mg/L" = milligrams per liter

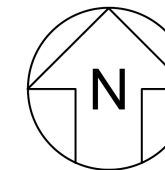
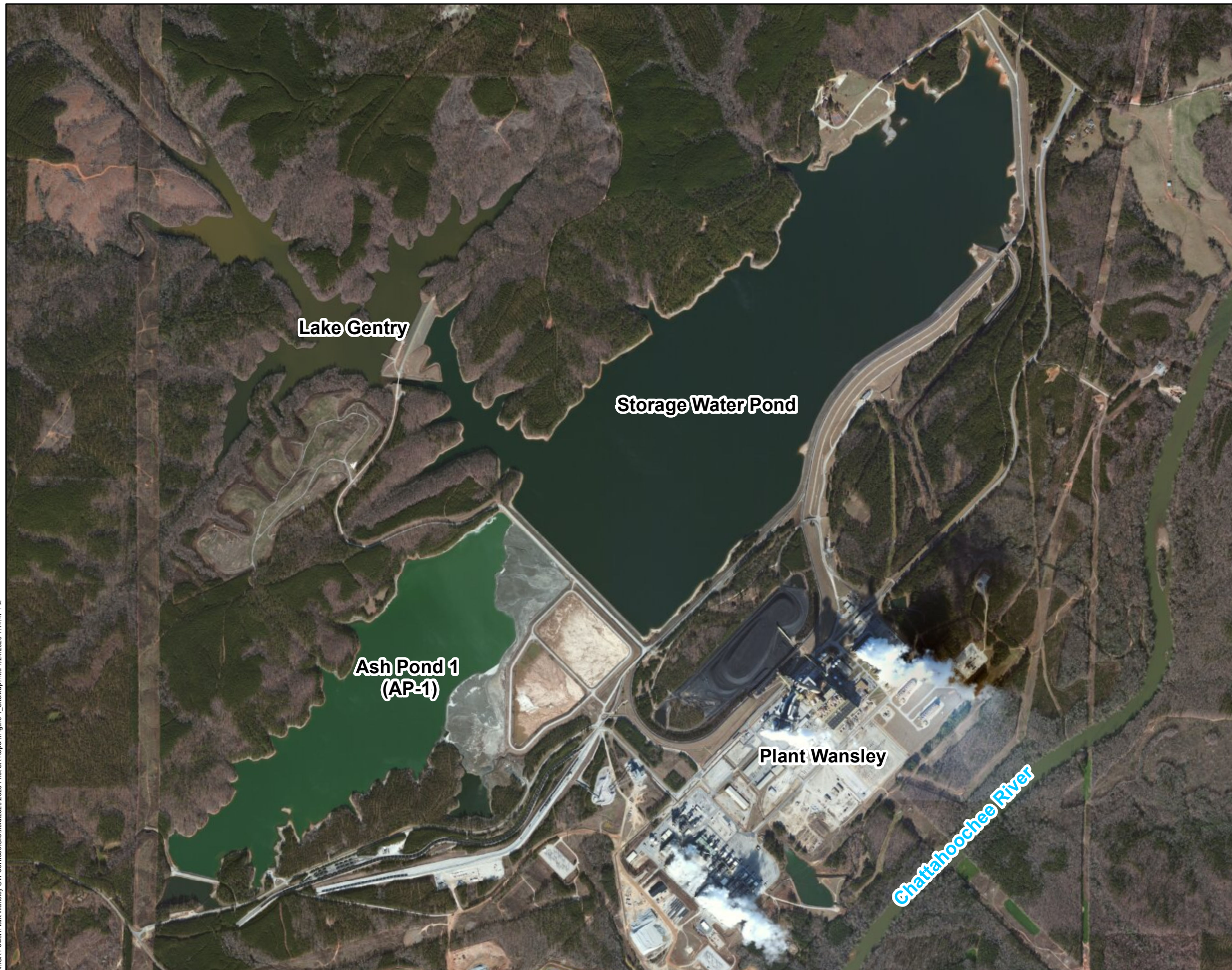
"pCi/L" = picocuries per liter

"GWPS" = Groundwater Protection Standard

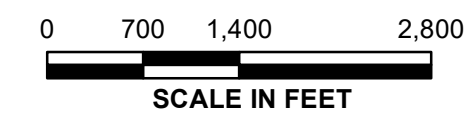
1. Stastical analyses were performed on semiannual monitoring events for data through May 2020 and data through November 2020. Background concentrations and Groundwater Protection Standards are applicable to both 2020 semiannual events.
2. The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).
3. Under 40 CFR §257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under 141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS is used; or (iii) background concentrations for constituents where the background level is higher than the MCL or rule-specified GWPS.
4. Under the existing Georgia EPD rules, the GWPS is: (i) the MCL, (ii) where the MCL is not established, the background concentration, or (iii) background concentrations for constituents where the background level is higher than the MCL.

FIGURES

N:\GA Power\Plant Wansley GW Services\GIS\mxd\2020\2020 First SA Report\Figure 1_SiteMap.mxd 7/24/2020 1:14:47 PM



Notes:
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, June 2018.



SITE LOCATION MAP

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For:  Georgia Power

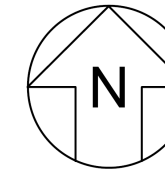
Prepared By:  Geosyntec
consultants

KENNESAW, GA

JANUARY 2021

**FIGURE
1**

M:\GA Power\Plant Wansley_GW Services\GIS\mxd\2020\ASD_L\Figure 1 - Monitoring Well Network Map.mxd 1/13/2021 12:45:24 PM



LEGEND

- + Compliance Monitoring Well
- + Characterization Monitoring Well
- + Piezometer



Notes:
 1. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, June 2018.



GROUNDWATER MONITORING WELL NETWORK MAP

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

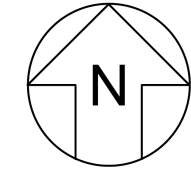
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA JANUARY 2021

FIGURE 2

M:\GA Power\Plant\Wansley_GW Services\GIS\mxd\2020\2020_Feet SA Report\Figure 3 - Feb 2020 Potentiometric Surface Contour Map.mxd 1/13/2021 12:48:15 PM



LEGEND

- + Compliance Monitoring Well
- + Characterization Monitoring Well
- + Piezometer
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction

Notes:

1. Water level elevation recorded on February 3, 2020. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
2. The map shows only wells/piezometers currently installed at the time of the water level gauging event.
3. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID,



**POTENTIOMETRIC SURFACE CONTOUR MAP
FEBRUARY 2020**

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

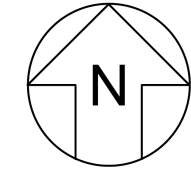
Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA JANUARY 2021

**FIGURE
3**

A:\GA Power\Plant Wansley_GW Services\GIS\mxd\2020\2020_First SA Report\Figure 4 - March 2020 Potentiometric Surface Contour Map.mxd 8/17/2020 12:36:16 PM



LEGEND

- Compliance Monitoring Well
- Characterization Monitoring Well
- Piezometer
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction

Notes:

1. Water level elevation recorded on March 16, 2020. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
2. The map shows only wells/piezometers currently installed at the time of the water level gauging event.
3. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID,



**POTENTIOMETRIC SURFACE CONTOUR MAP
MARCH 2020**

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

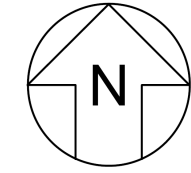
Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA JANUARY 2021

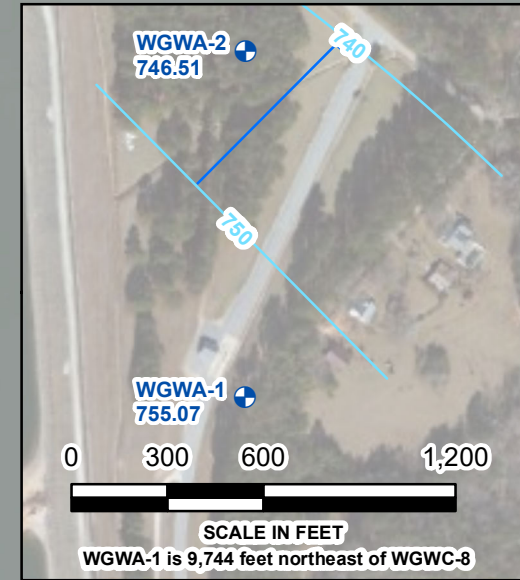
**FIGURE
4**

\\are-01\p1\1\GA Power\Plant Wansley_GW Services\GIS\mxd\2020\2020 Second SA Report\Figure 4 - September 2020 Potentiometric Surface Contour Map.mxd 1/13/2021 1:07:06 PM

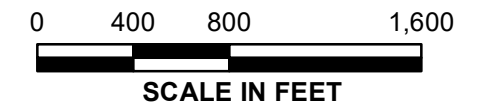


LEGEND

- + Compliance Monitoring Well
- + Characterization Monitoring Well
- + Piezometer
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction



- Notes:
1. Water level elevation recorded on September 8, 2020. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 2. The map shows only wells/piezometers currently installed at the time of the water level gauging event.
 3. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID,



**POTENTIOMETRIC SURFACE CONTOUR MAP
SEPTEMBER 2020**

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA JANUARY 2021

FIGURE

5

APPENDICES

APPENDIX A
Certified Well Survey Data
(June 2020)

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail on Pad Northing	Nail on Pad Easting	Nail on Pad Elevation
PZ-1	1240249.8630	2022319.9310	856.72	1240249.9700	2022320.5080	853.91
PZ-4	1242592.0290	2023595.9140	889.01	1242592.3380	2023596.5490	886.13
PZ-6	1244382.8880	2024661.3940	915.15	1244383.1700	2024661.9960	912.30
PZ-8	1245514.5910	2026807.2980	867.29	1245514.7420	2026806.5550	864.65
PZ-10	1242058.4080	2028554.2850	832.02	1242059.0170	2028553.7330	829.26
PZ-11	1240578.8710	2026933.0880	823.09	1240579.6810	2026932.6430	820.21
PZ-12	1240837.9640	2026731.0050	818.74	1240838.5000	2026731.0470	816.17
PZ-15	1240457.6050	2025105.3770	826.86	1240456.9660	2025105.5600	824.59
PZ-16	1239419.7700	2023662.2240	800.70	1239419.1270	2023662.3410	798.05
PZ-17	1239270.0160	2023086.5000	831.01	1239269.7540	2023086.3130	828.54
PZ-18	1239569.5150	2022299.1990	814.51	1239569.7940	2022300.1040	812.10
PZ-20	1243496.8600	2030132.7300	787.30	1243495.6070	2030132.0520	784.45
WAMW-1	1241843.6600	2028944.6250	782.66	1241844.0310	2028943.9790	780.05
WAMW-2	1241547.5560	2028806.2670	770.82	1241547.1220	2028805.7030	768.39
WGWA-1	1250656.0950	2035580.7080	782.93	1250656.4090	2035580.1280	780.37
WGWA-2	1251556.3950	2035590.1080	758.23	1251556.3970	2035589.4980	755.77
WGWA-3	1240848.2140	2022350.0950	828.91	1240848.0950	2022350.8040	826.63
WGWA-4	1240879.5820	2022339.6570	834.34	1240879.8680	2022340.9730	831.33
WGWA-5	1241997.9440	2022368.8480	902.15	1241998.0000	2022369.7100	899.28
WGWA-6	1241932.0170	2022360.5840	897.13	1241931.8200	2022361.6140	894.62
WGWA-7	1243338.6270	2023843.8080	897.33	1243337.9640	2023843.4880	894.49
WGWA-18	1244592.5610	2025580.7050	878.02	1244592.1320	2025580.1320	875.47
WGWC-8	1242929.4040	2029644.5810	780.08	1242928.7100	2029644.4410	777.70
WGWC-9	1242801.1220	2029115.7520	812.03	1242800.5100	2029116.3540	809.33
WGWC-10	1240971.9590	2026725.6080	812.38	1240971.3740	2026725.3710	809.61
WGWC-11	1240860.1770	2025773.3940	823.96	1240859.5740	2025772.9470	821.44
WGWC-12	1240827.6760	2025755.9870	823.04	1240827.1900	2025755.4920	820.57
WGWC-13	1240610.9290	2024585.9120	809.78	1240610.3180	2024586.1010	807.32
WGWC-14A	1240604.5360	2024599.6310	810.94	1240603.9380	2024598.3360	808.20
WGWC-15	1240483.1620	2023912.9150	804.69	1240483.1680	2023912.2850	802.03
WGWC-16	1240480.4570	2023903.7730	804.21	1240480.3010	2023903.1200	801.72
WGWC-17	1240052.0560	2022623.8220	816.00	1240052.0140	2022623.1790	813.36
WGWC-19	1241851.5120	2028949.1850	783.42	1241851.9040	2028948.5970	780.60

Benchmark	Northing	Easting	Elevation
BM-W1	1243475.416	2029633.083	804.08
BM-W2	1251565.596	2035853.723	747.75

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 06/03/2020-06/10/2020. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R10 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-W1 & BM-W2 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL



Jimmy R. Toole

06/16/2020

APPENDIX B

January 2021 Piezometer Design,
Installation, and Development Report
Plant Wansley Ash Pond 1 (AP-1)
Georgia Power Company

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

**PIEZOMETER DESIGN, INSTALLATION,
AND DEVELOPMENT REPORT
PLANT WANSLEY ASH POND 1
(AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW7327

January 2021



PIEZOMETER DESIGN, INSTALLATION, AND DEVELOPMENT REPORT

Plant Wansley
Ash Pond 1
January 15, 2021



A handwritten signature in blue ink that reads "Adria Lee Reimer".

Adria Reimer, P.G.
Project Manager
Geosyntec Consultants

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Appendix C	Geophysical Logging Report
Appendix D	Piezometer Development Forms
Appendix E	Certified Piezometer Survey Data

LIST OF ACRONYMS

ACC	Atlantic Coast Consulting, Inc.
AP	Ash Pond
ASTM	American Society for Testing and Materials
CCR	coal combustion residual
CFR	Code of Federal Regulations
CFS	Civil Field Services
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
NAD83	North America Datum of 1983
NAVD88	North American Vertical Datum of 1988
NSF	National Sanitation Foundation
NTU	nephelometric turbidity unit
ORP	oxygen reduction potential
PG	professional geologist
PVC	polyvinyl chloride
SCS	Southern Company Services
TOC	top of casing
US EPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of 12 piezometers at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1). The piezometers were installed for the collection of hydrogeologic data which will be used to refine the current conceptual hydrogeologic model for the Site. This report meets the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR § 257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. The groundwater monitoring system at AP-1 consists of 19 wells associated with the CCR compliance monitoring well network, and a secondary network of two groundwater characterization wells and 12 groundwater level monitoring piezometers that are used to gauge groundwater levels in the vicinity of AP-1 to refine groundwater flow direction and gradients. The locations of the compliance monitoring wells, characterization wells, and piezometers are shown on **Figure 1**.

2. DRILLING AND PIEZOMETER INSTALLATION

A *Piezometer Installation and Field Testing Workplan* (Workplan) was submitted to the GA EPD on September 22, 2020 (Geosyntec, 2020). Piezometer installation and development activities were performed according to accepted industry standards and following guidelines within the *Manual for Groundwater Monitoring* (GA EPD, 1991) and in accordance with the Workplan. Piezometer drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of New Ellenton, South Carolina, under contract with, and the supervision of, Southern Company Services (SCS) Civil Field Services (CFS) personnel. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. A geologist under the supervision of a professional geologist (PG) registered to practice in the State of Georgia, both employed with Geosyntec Consultants (Geosyntec), documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, water elevations, and other field activities. Atlantic Coast Consulting, Inc. (ACC) was responsible for the development of the newly installed piezometers.

This report presents the details for the drilling, installation, and development of AP-1 area piezometers PZ-22, PZ-23S, PZ-23D, PZ-24, PZ-25S, PZ-26D, PZ-26S, PZ-27D, PZ-27S, PZ-28 as proposed in the Workplan. Piezometer PZ-25D was proposed in the Workplan; however, based on observations during borehole drilling and results of borehole geophysical logging which indicated a lack of hydraulically-active fractures in the bedrock zone, PZ-25D was not installed. PZ-25S was installed at the Workplan proposed PZ-25D location and the second PZ-25 borehole was abandoned using sodium bentonite grout placed via tremie pipe from the bottom of the borehole to ground surface. Two additional piezometers not included in the Workplan (PZ-29S and PZ-29D) were installed during this field investigation following the same methods and procedures described in the Workplan to provide supplementary hydrogeologic data at the Site.

The locations of these piezometers and abandoned borehole are shown on **Figure 1**. Piezometer construction details are provided in **Table 1**; the boring and piezometer construction logs are included in **Appendix B**. The boring log for abandoned borehole PZ-25 is also included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using roto-sonic drilling techniques with continuous core collection. A Terra Sonic full-size drill rig with a 6-inch sonic drill rod was used to install the piezometers. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities. Drilling equipment was cleaned prior to mobilizing to the Site.

2.2 Borehole Geophysics

Borehole geophysical logging of boreholes drilled into rock units was conducted by GEL Solutions (GEL) of Marietta, Georgia, under the supervision of a Geosyntec geologist. The purpose of the geophysical logging was to characterize and evaluate potential water-bearing bedrock fractures and groundwater flow in the open-hole sections of the boreholes to support decisions on the appropriate screen interval for each bedrock piezometer. The geophysical logging consisted of a combination of:

- acoustic televiewer;
- three-arm caliper;
- fluid temperature and fluid resistivity under ambient flow conditions in all piezometers and induced flow (pumping) conditions at select piezometer locations; and
- spontaneous potential and single point resistance.

Geophysical logging was conducted at boreholes PZ-22, PZ-23S, PZ-23D, PZ-25, and PZ-26D. Geophysical logging was not conducted at PZ-27D due to the fractured nature of the formation at the borehole, and the potential for the borehole to collapse and damage the downhole logging equipment. A geophysical testing report prepared by GEL is provided in **Appendix C**.

2.3 Screened Interval

Details regarding the piezometer screen intervals are provided in **Table 1**. The new piezometers are screened from approximately 780 to 679 feet [referenced to the North American Vertical Data of 1988 (NAVD88)]. The piezometers were constructed with 10 feet of well screen.

2.4 Piezometer Casings and Screens

The piezometers were constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings and were installed with a 10-foot nominal length pre-packed well screen with 0.010-inch slots. The casings and pre-packed screens arrived pre-cleaned and packaged by the manufacturer. The pre-packed screen was constructed onsite by packing sand between slotted PVC and the screen. Piezometer construction materials are sufficiently durable to resist chemical and physical degradation and not interfere with the quality of groundwater samples. Casing and screens are flush-threaded. Solvent or glue was not used to construct the piezometers. A threaded bottom cap was attached to the bottom of the screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Construction details are provided in **Table 1**.

2.5 Piezometer Intake Design

The piezometers were designed and constructed to: (1) allow sufficient groundwater flow to the piezometer for gauging; (2) minimize the passage of formation materials (turbidity) into the piezometer; and (3) ensure sufficient structural integrity to prevent collapse of the piezometer. The annular space between the face of the formation and the screen was filled to minimize passage of formation materials into the piezometers. A filter pack of clean, well-rounded, quartz sand was installed in the piezometer. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.6 Filter Pack

Highly Pure Quartzite of Southern Products & Silica Co. silica sand filter pack was used as the appropriate gradation for all the piezometers. Highly Pure Quartzite meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the pre-packed dual-wall well screens and in the annular space between the outside of the pre-packed screen and borehole wall to ensure an adequate thickness of filter pack material between the piezometer and the formation. Filter pack material placed in the annular space outside of the screen extended approximately two feet above the top of screen. No bridging occurred during filter pack placement.

Upon placement of the filter pack, the piezometer was pumped with a submersible pump to assure settlement of the filter pack. The top of filter pack depth was measured following pumping to ensure appropriate extension of filter sand above the screen. The depth of top of filter pack was measured and recorded on the piezometer construction logs provided in **Appendix B**.

2.7 Annular Seal

A minimum of two feet of bentonite chips (PelPlug 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacture's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. The bentonite was hydrated with potable water for a duration meeting the manufacture's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with Aqua Guard bentonite grout placed via tremie pipe from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately two feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron measuring 4-feet square by 4-inches high was poured around each piezometer. The pad was mounded slightly outward to direct surface drainage away from the piezometer.

2.8 Cap and Protective Casing

Piezometers were completed with a flush mount or stick up surface completion. For stick up completions, the piezometer risers were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser to provide a means for gas to escape. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent piezometer tampering. Bollards were installed around the four corners of the concrete pad to protect the piezometer. A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. Piezometers were clearly marked with the proper identification number on the stand-up casing. For flush mount completions, the PVC riser was cut down to just below ground surface, and a concrete pad with a manhole cover and locking cap were installed. Construction details are documented on the piezometer construction log provided in **Appendix C**.

3. PIEZOMETER DEVELOPMENT

Piezometers were developed using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment. Piezometers were alternately surged and purged until visually clear of particulates. The goal of piezometer development was to achieve a turbidity of less than 5 nephelometric turbidity units (NTUs). Turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each piezometer was fully developed. Development objectives were achieved at each piezometer. The development forms are included in **Appendix D**.

All equipment and tubing placed in the piezometer was decontaminated or disposed of between piezometers.

4. SURVEY

Upon completion of the piezometer installation, the horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor. The top of the PVC casing [top of casing (TOC) elevation] and the survey pin installed in the 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 America Datum of 1983 (NAD83) with the vertical elevation recorded in feet relative NAVD88. Certified survey data are provided in the piezometer construction table (**Table 1**). A copy of the certified survey data for the new AP-1 piezometers is provided in **Appendix E**.

5. REFERENCES

Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.

Geosyntec Consultants, 2020. *Piezometer Installation and Field Testing Workplan – Plant Wansley Ash Pond 1 (AP-1)*. September 2020.

TABLE

Table 1
 Summary of Piezometer Construction Details
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Purpose	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation ⁽²⁾ (ft NAVD88)	Top of Casing Elevation ⁽²⁾ (ft NAVD88)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation ⁽²⁾ (ft NAVD88)	Depth to Bottom of Screen (ft BTOC)	Bottom of Screen Elevation ⁽²⁾ (ft NAVD88)	Well Depth (ft BTOC) ⁽³⁾	Well Depth (ft bgs) ⁽³⁾	Bottom of Well Elevation ⁽²⁾ (ft NAVD88)	Screen Interval Length (ft)
<i>Piezometer</i>														
PZ-22	Piezometer	9/29/2020	1243350.76	2029769.43	804.88	807.95	32.77	775.18	42.77	765.18	43.17	40.10	764.78	10
PZ-23S	Piezometer	10/2/2020	1242139.33	2028512.65	831.79	834.41	61.30	773.11	71.30	763.11	71.70	69.09	762.71	10
PZ-23D	Piezometer	10/2/2020	1242139.53	2028520.87	831.89	834.32	84.40	749.92	94.40	739.92	94.80	92.37	739.52	10
PZ-24	Piezometer	10/18/2020	1241695.25	2028116.05	807.00	810.37	33.45	776.92	43.45	766.92	43.85	40.48	766.52	10
PZ-25S	Piezometer	10/4/2020	1240769.79	2027414.58	820.50	823.80	43.40	780.40	53.40	770.40	53.80	50.50	770.00	10
PZ-26S	Piezometer	10/17/2020	1239916.68	2024139.82	802.22	804.80	30.37	774.43	40.37	764.43	40.77	38.19	764.03	10
PZ-26D	Piezometer	10/12/2020	1239919.45	2024146.35	802.31	804.93	69.70	735.23	79.70	725.23	80.10	77.47	724.83	10
PZ-27S	Piezometer	10/28/2020	1240184.18	2023616.69	805.98	808.98	29.47	779.51	39.47	769.51	39.87	36.87	769.11	10
PZ-27D	Piezometer	10/15/2020	1240190.93	2023620.36	806.22	809.28	71.32	737.96	81.32	727.96	81.72	78.65	727.56	10
PZ-28	Piezometer	10/29/2020	1240066.02	2022624.73	813.57	816.18	62.50	753.68	72.50	743.68	72.90	70.29	743.28	10
PZ-29S	Piezometer	10/31/2020	1244317.13	2028839.68	805.80	805.30	35.02	770.28	45.02	760.28	45.42	45.92	759.88	10
PZ-29D	Piezometer	11/1/2020	1244304.90	2028853.29	805.77	805.24	116.55	688.69	126.55	678.69	126.95	127.48	678.29	10

Notes:

ft = feet

ft BTOC = feet below top of casing

ft bgs = feet below ground surface

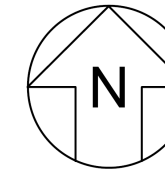
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey data obtained November 4-5, 2020.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data obtained in November 4-5, 2020.





(3) Total well depth accounts for sump.

FIGURE

M:\GA Power\Plant\Wansley_GW_Services\GIS\mxd\2020\ASD_L\Figure 1 - Monitoring Well Network Map.mxd 1/14/2021 12:07:09 AM



LEGEND

-  Compliance Monitoring Well
-  Characterization Monitoring Well
-  Piezometer
-  Borehole (Abandoned)

Notes:
 1. Location of abandoned borehole at PZ-25 was not surveyed. Location shown is approximate.
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID,



GROUNDWATER MONITORING WELL NETWORK MAP

GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For:  Georgia Power

Prepared By: 

KENNESAW, GA

JANUARY 2021

FIGURE 1

APPENDIX A

Well Driller Performance Bonds

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

Issued on 9/27/2017
Expires on 6/30/2019
Renewed on 3/4/2019
Expires on 6/30/2021

does hereby continue said bond in force for the further period

beginning on 06/30/2019
(MONTH-DAY-YEAR)

and ending on 06/30/2021
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium: \$1200.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on March 4th, 2019
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By Andrew P. Larsen
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent

2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

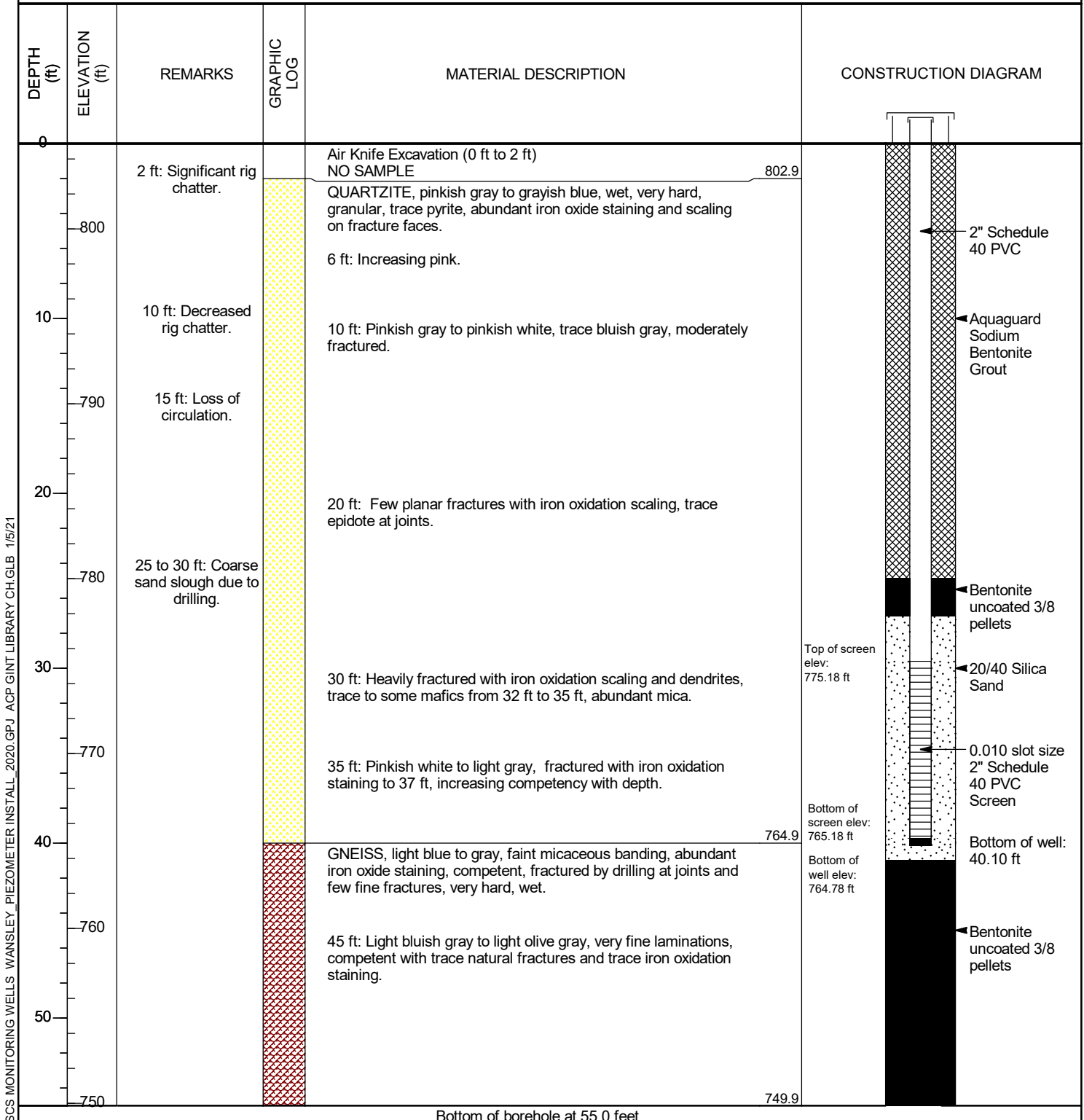
Telephone Number of Agent



APPENDIX B

Boring and Piezometer Construction Logs

CLIENT Southern Company Services	PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT NUMBER GW7327	PROJECT LOCATION Plant Wansley AP-1
DATE STARTED 9/29/20 COMPLETED 9/29/20	NORTHING 1243350.76 ft EASTING 2029769.43 ft
DRILLER Cascade Drilling	GROUND ELEVATION 804.88 ft BORING DIAMETER 6 in.
DRILLING METHOD Sonic	TOP OF CASING ELEVATION 807.95 ft
SAMPLING METHOD 4 in. core 6 in. override	GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic 1051181	LOGGED BY A. Ramsey CHECKED BY A. Reimer



SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21

Bottom of borehole at 55.0 feet.

CLIENT Southern Company Services **PROJECT NAME** Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT NUMBER GW7327 **PROJECT LOCATION** Plant Wansley AP-1
DATE STARTED 10/2/20 **COMPLETED** 10/2/20 **NORTHING** 1242139.33 ft **EASTING** 2028512.65 ft
DRILLER Cascade Drilling **GROUND ELEVATION** 831.79 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic **TOP OF CASING ELEVATION** 834.41 ft
SAMPLING METHOD 4 in. core 6 in. override **GEOPHYSICAL CONTRACTOR** ---
RIG TYPE Terrasonic 1051181 **LOGGED BY** A. Ramsey **CHECKED BY** A. Reimer

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0				Air Knife Excavation (0 ft to 10 ft) NO SAMPLE	
5					
10				NO RECOVERY (10 ft to 17 ft)	
15					
20					
25					
30					
35					

SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21

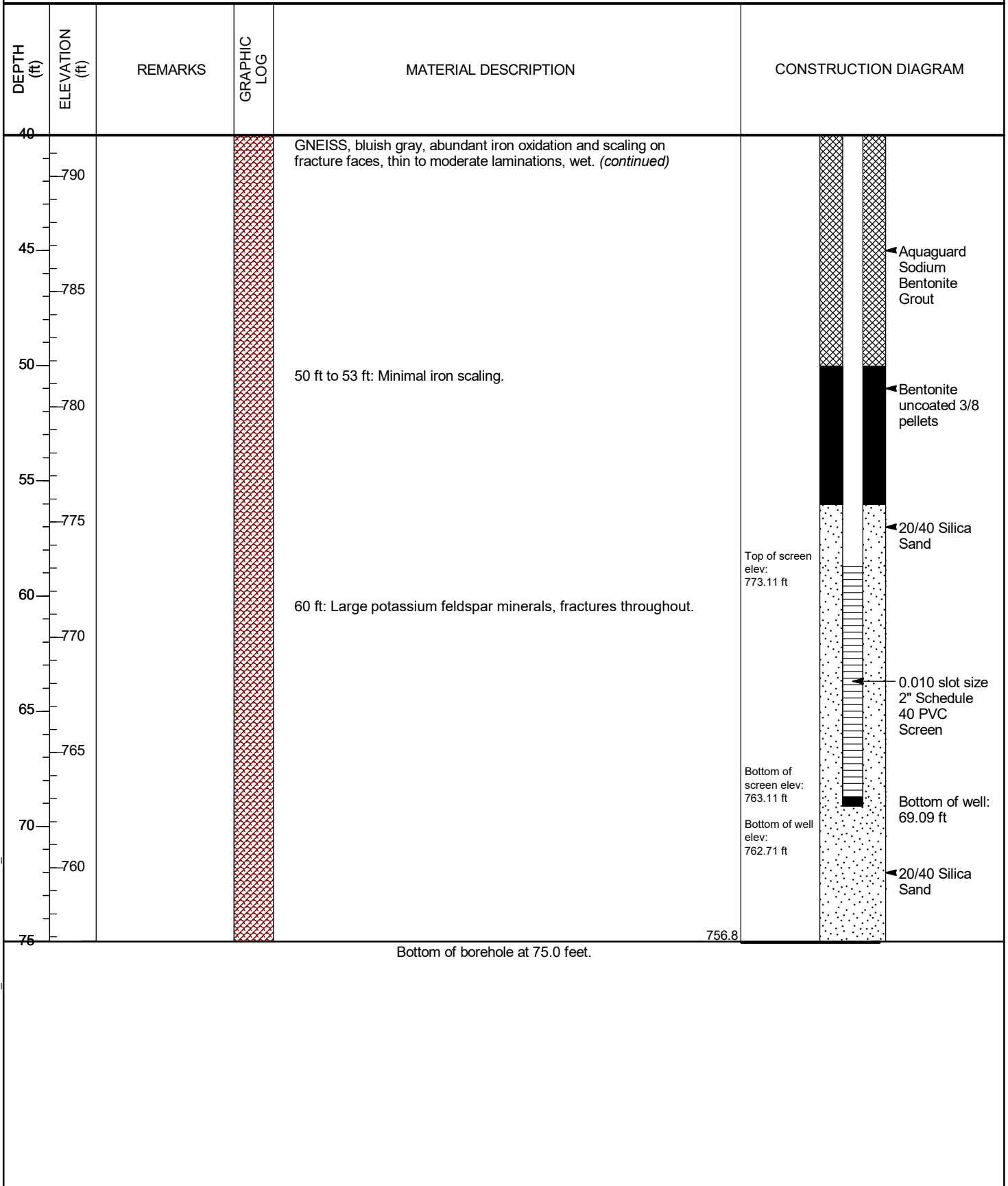
CLIENT Southern Company Services

PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation

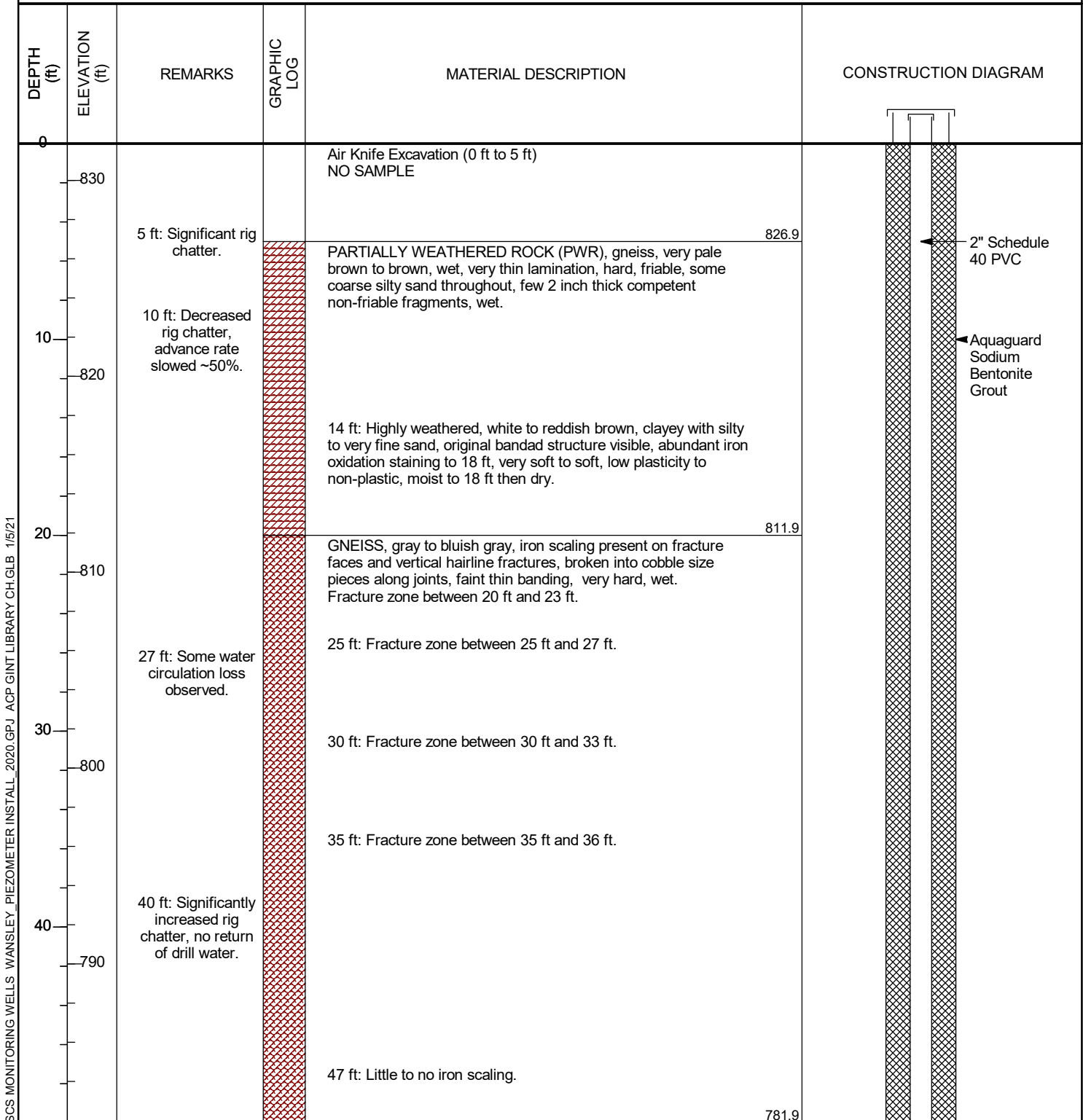
PROJECT NUMBER GW7327

PROJECT LOCATION Plant Wansley AP-1

SCS MONITORING WELLS_WANSLEY_PIEZOMETER INSTALL_2020.GPJ_ACP GINT LIBRARY CH.GLB 1/5/21



CLIENT <u>Southern Company Services</u>	PROJECT NAME <u>Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation</u>
PROJECT NUMBER <u>GW7327</u>	PROJECT LOCATION <u>Plant Wansley AP-1</u>
DATE STARTED <u>9/30/20</u> COMPLETED <u>10/2/20</u>	NORTHING <u>1242139.53 ft</u> EASTING <u>2028520.87 ft</u>
DRILLER <u>Cascade Drilling</u>	GROUND ELEVATION <u>831.89 ft</u> BORING DIAMETER <u>6 in.</u>
DRILLING METHOD <u>Sonic</u>	TOP OF CASING ELEVATION <u>834.32 ft</u>
SAMPLING METHOD <u>4 in. core 6 in. override</u>	GEOPHYSICAL CONTRACTOR <u>---</u>
RIG TYPE <u>Terrasonic 1051181</u>	LOGGED BY <u>A. Ramsey</u> CHECKED BY <u>A. Reimer</u>



SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21

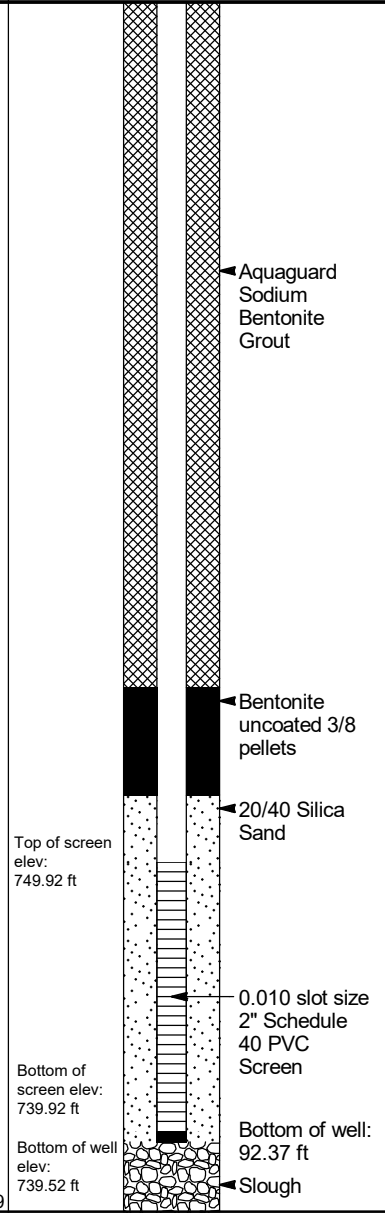
CLIENT Southern Company Services

PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation

PROJECT NUMBER GW7327

PROJECT LOCATION Plant Wansley AP-1

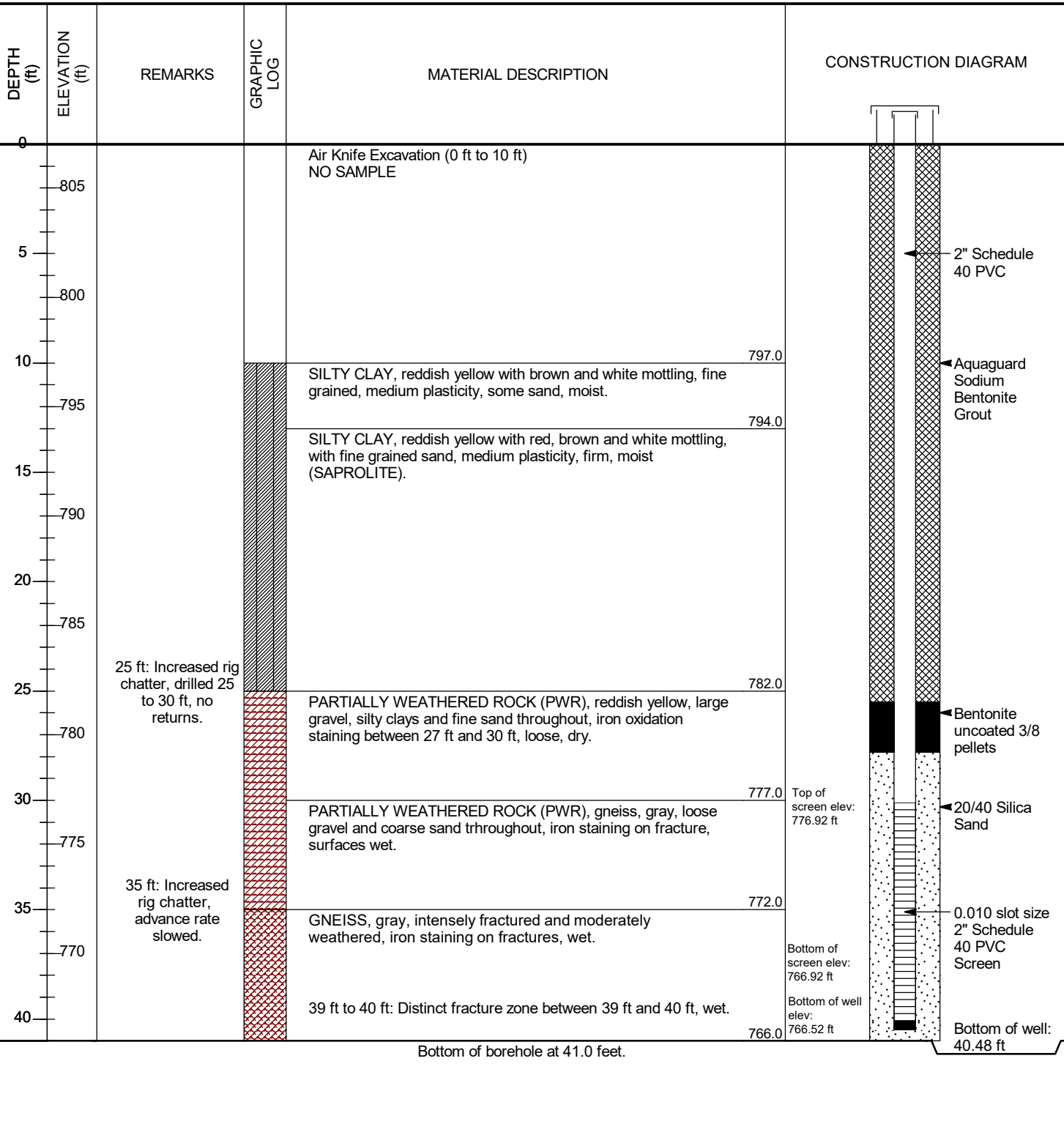
DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
50					
	780			GNEISS, gray to bluish gray, iron scaling present on fracture faces and vertical hairline fractures, broken into cobble size pieces along joints, faint thin banding, very hard, wet. 53 ft: Likely fracture.	
60				60 ft: Increased separation of minerals in very thin laminations.	
	770				
70				75 ft: Large potassium feldspar minerals.	
	760				
80				80 ft: Potassium feldspar throughout.	
	750				
90		90 ft: Increased rig chatter and resistance.			
	740				



Bottom of borehole at 95.0 feet.

SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 1/5/21

CLIENT <u>Southern Company Services</u>	PROJECT NAME <u>Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation</u>
PROJECT NUMBER <u>GW7327</u>	PROJECT LOCATION <u>Plant Wansley AP-1</u>
DATE STARTED <u>10/18/20</u> COMPLETED <u>10/18/20</u>	NORTHING <u>1241695.25 ft</u> EASTING <u>2028116.05 ft</u>
DRILLER <u>Cascade Drilling</u>	GROUND ELEVATION <u>807.00 ft</u> BORING DIAMETER <u>6 in.</u>
DRILLING METHOD <u>Sonic</u>	TOP OF CASING ELEVATION <u>810.37 ft</u>
SAMPLING METHOD <u>4 in. core 6 in. override</u>	GEOPHYSICAL CONTRACTOR <u>---</u>
RIG TYPE <u>Terrasonic 1051181</u>	LOGGED BY <u>T. Kessler</u> CHECKED BY <u>A. Reimer</u>

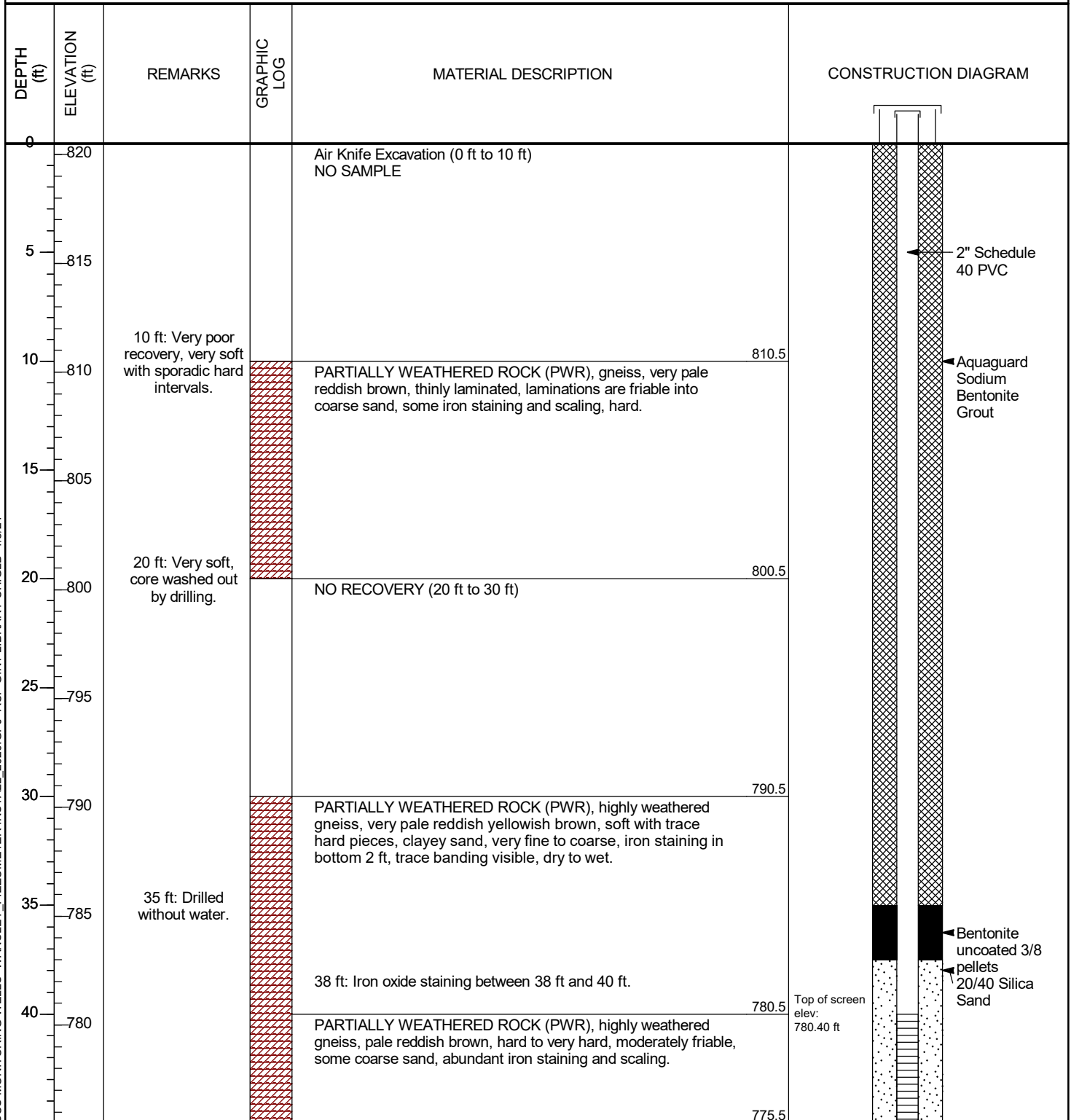


SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY.CH.GLB 1/6/21

CLIENT Southern Company Services
PROJECT NUMBER GW7327
DATE STARTED 10/4/20 **COMPLETED** 10/4/20
DRILLER Cascade Drilling
DRILLING METHOD Sonic
SAMPLING METHOD 4 in. core 6 in. override
RIG TYPE Terrasonic 1051181

PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT LOCATION Plant Wansley AP-1
NORTHING 1240769.79 ft **EASTING** 2027414.58 ft
GROUND ELEVATION 820.50 ft **BORING DIAMETER** 6 in.
TOP OF CASING ELEVATION 823.80 ft
GEOPHYSICAL CONTRACTOR ---
LOGGED BY A. Ramsey **CHECKED BY** A. Reimer

SCS MONITORING WELLS_WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21



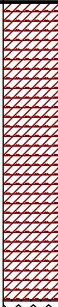
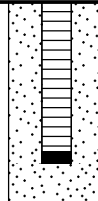



(Continued Next Page)

CLIENT Southern Company Services

PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation

PROJECT NUMBER GW7327

PROJECT LOCATION Plant Wansley AP-1

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
45	775			PARTIALLY WEATHERED ROCK (PWR), gneiss, with trace very hard schistose gneiss fragments and clayey sandy silt, pale reddish brown, banded, micaceous, non plastic, some iron staining, hard, moist to dry.	 <p>0.010 slot size 2" Schedule 40 PVC Screen</p> <p>Bottom of screen elev: 770.40 ft</p> <p>Bottom of well elev: 770.00 ft</p> <p>Bottom of well: 50.50 ft</p>
50	770				
55	765				
60	760			GNEISS, pink, very pale brown, massive with some thin laminations. 760.5	
65	755				 <p>Bentonite uncoated 3/8 pellets</p>
70	750				
75					



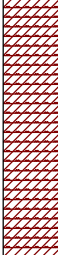
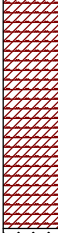
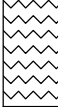

Bottom of borehole at 75.0 feet.

SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH (GLB) 1/5/21

Borehole abandoned with sodium bentonite grout

CLIENT <u>Southern Company Services</u>	PROJECT NAME <u>Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation</u>
PROJECT NUMBER <u>GW7327</u>	PROJECT LOCATION <u>Plant Wansley AP-1</u>
DATE STARTED <u>10/20/20</u> COMPLETED <u>10/20/20</u>	NORTHING <u>Unknown</u> EASTING <u>Unknown</u>
DRILLER <u>Cascade Drilling</u>	GROUND ELEVATION <u>---</u> BORING DIAMETER <u>6 in.</u>
DRILLING METHOD <u>Sonic</u>	TOP OF CASING ELEVATION <u>---</u>
SAMPLING METHOD <u>4 in. core 6 in. override</u>	GEOPHYSICAL CONTRACTOR <u>---</u>
RIG TYPE <u>Terrasonic 1051181</u>	LOGGED BY <u>T. Wilson</u> CHECKED BY <u>A. Reimer</u>

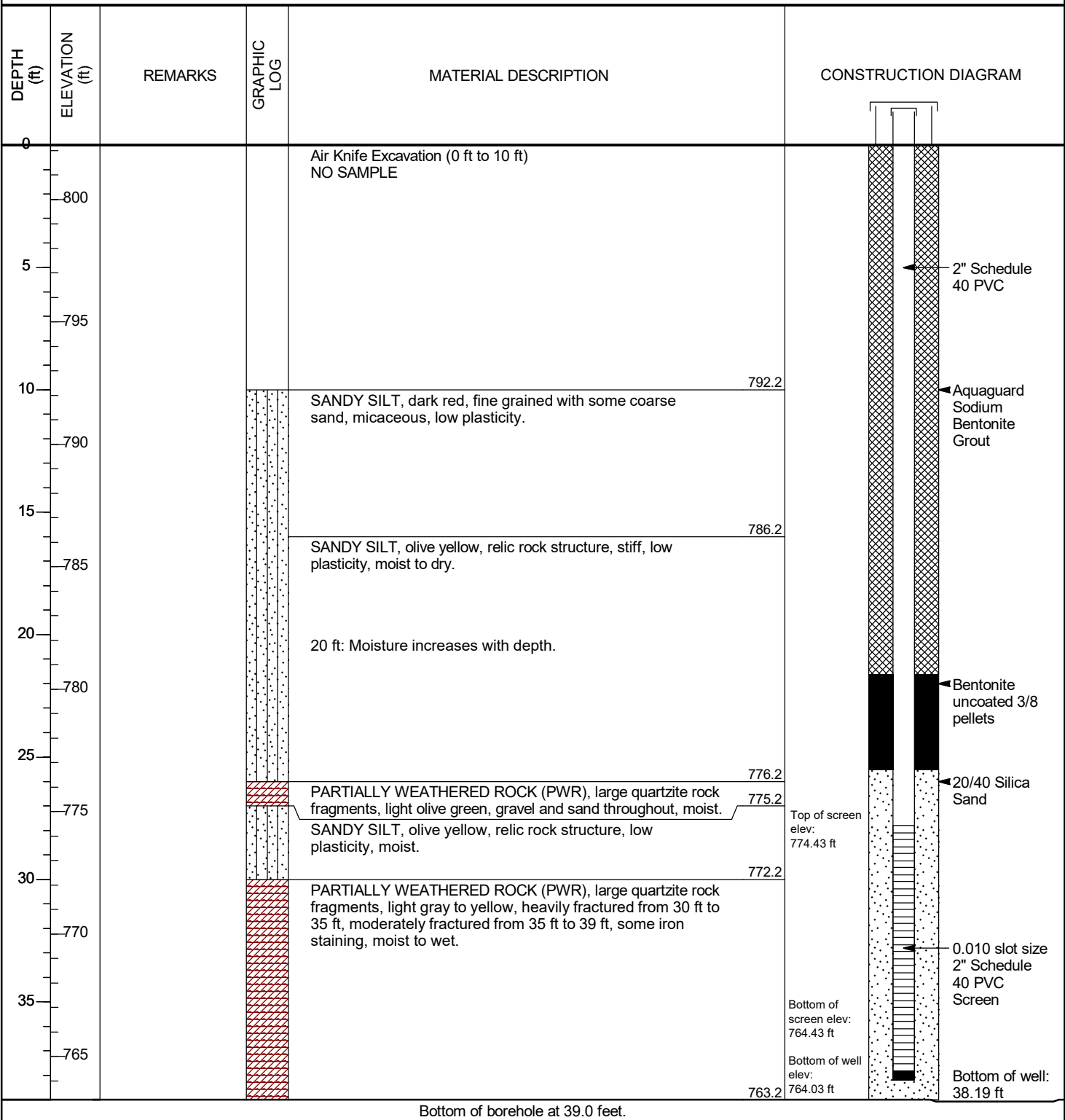
SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Boring abandoned due to jammed rods.		Air Knife Excavation (0 ft to 10 ft) NO SAMPLE
10				SAPROLITE, reddish yellow, soft, silts and fine sands, medium plasticity, iron staining between 18 ft and 19 ft, relic rock structure throughout, soft, dry. PARTIALLY WEATHERED ROCK (PWR), reddish yellow, soft, silts and fine sands, medium plasticity, iron staining between 18 ft and 19 ft, relic rock structure throughout, soft, dry.
20				20 ft: Strong brown.
30				PARTIALLY WEATHERED ROCK (PWR), gneiss, pinkish gray, weathered, silty sand, fine grained, medium plasticity, with large rock fragments, soft. 30 ft: Strong brown.
40				PARTIALLY WEATHERED ROCK (PWR), muscovite schist, brown to grayish brown, weathered, silty sand, fine to coarse grained, large rock fragments, minimal iron staining at 55 ft, dry.
50				MUSCOVITE SCHIST, black, thin laminations, hard.
60				GNEISS, pink, pale brown, massive, with thin laminations, some hard, weak foliations.
Bottom of borehole at 60.0 feet				

CLIENT Southern Company Services
PROJECT NUMBER GW7327
DATE STARTED 10/17/20 **COMPLETED** 10/17/20
DRILLER Cascade Drilling
DRILLING METHOD Sonic
SAMPLING METHOD 4 in. core 6 in. override
RIG TYPE Terrasonic 1051181

PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT LOCATION Plant Wansley AP-1
NORTHING 1239916.68 ft **EASTING** 2024139.82 ft
GROUND ELEVATION 802.22 ft **BORING DIAMETER** 6 in.
TOP OF CASING ELEVATION 804.80 ft
GEOPHYSICAL CONTRACTOR ---
LOGGED BY V. Taukoor **CHECKED BY** A. Reimer

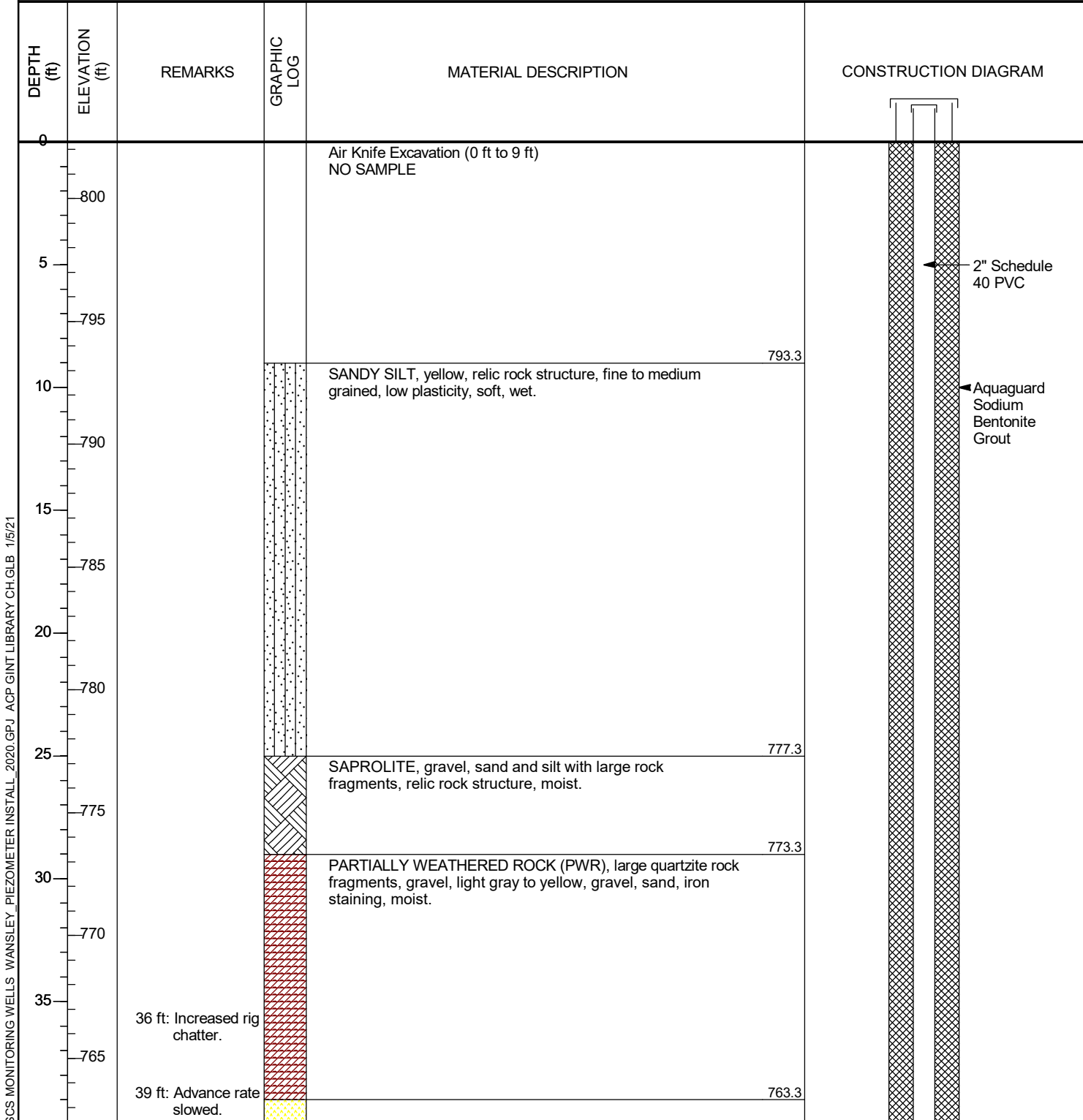
SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21



Bottom of borehole at 39.0 feet.

CLIENT Southern Company Services
PROJECT NUMBER GW7327
DATE STARTED 10/12/20 **COMPLETED** 10/12/20
DRILLER Cascade Drilling
DRILLING METHOD Sonic
SAMPLING METHOD 4 in. core 6 in. override
RIG TYPE Terrasonic 1051181

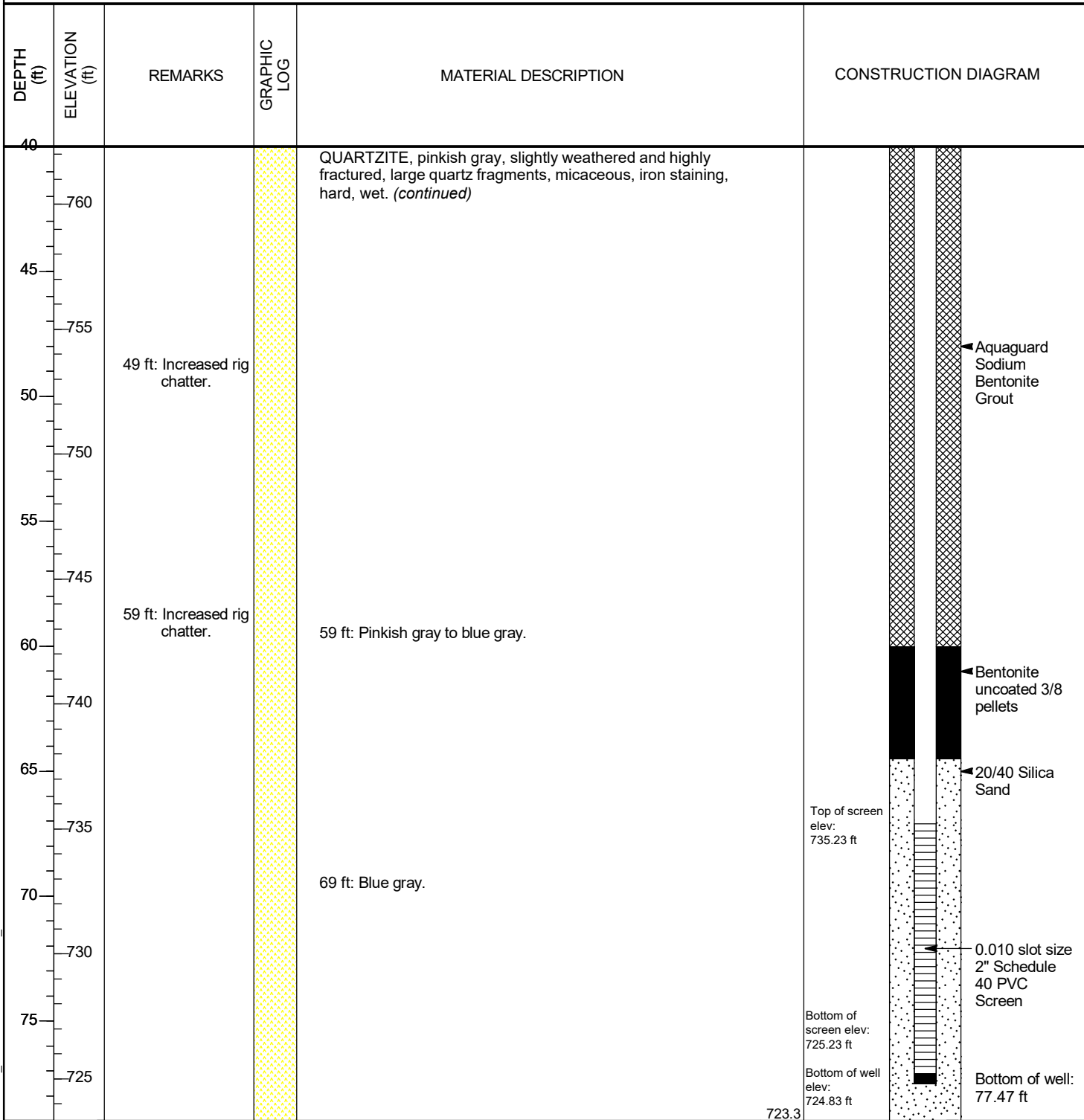
PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT LOCATION Plant Wansley AP-1
NORTHING 1239919.45 ft **EASTING** 2024146.35 ft
GROUND ELEVATION 802.31 ft **BORING DIAMETER** 6 in.
TOP OF CASING ELEVATION 804.93 ft
GEOPHYSICAL CONTRACTOR ---
LOGGED BY T. Kessler **CHECKED BY** A. Reimer



SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH (GLB) 1/5/21

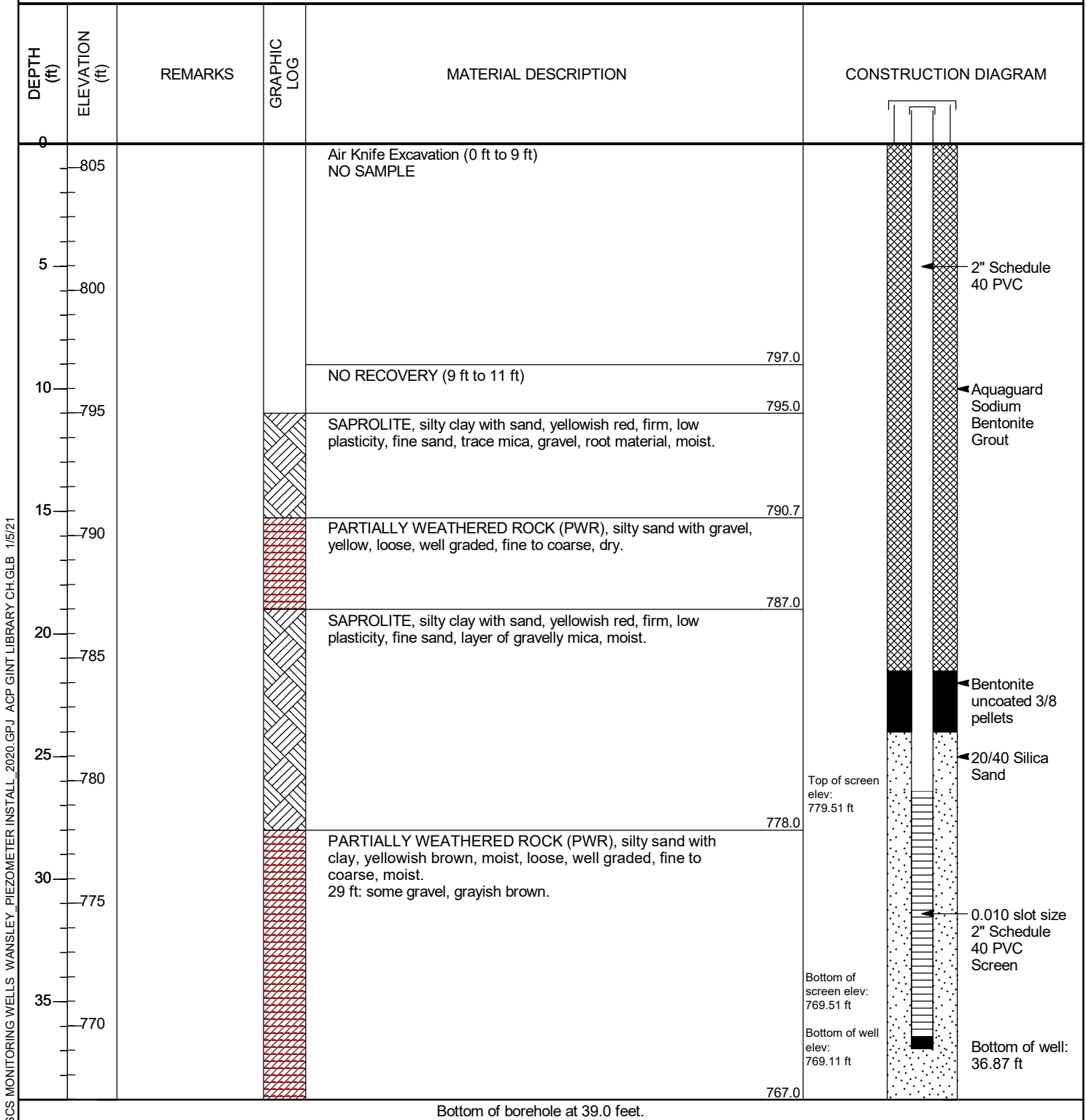
CLIENT Southern Company Services **PROJECT NAME** Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT NUMBER GW7327 **PROJECT LOCATION** Plant Wansley AP-1

SCS MONITORING WELLS_WANSLEY_PIEZOMETER INSTALL_2020.GPJ_ACP GINT LIBRARY.CH (GLB - 1/5/21)



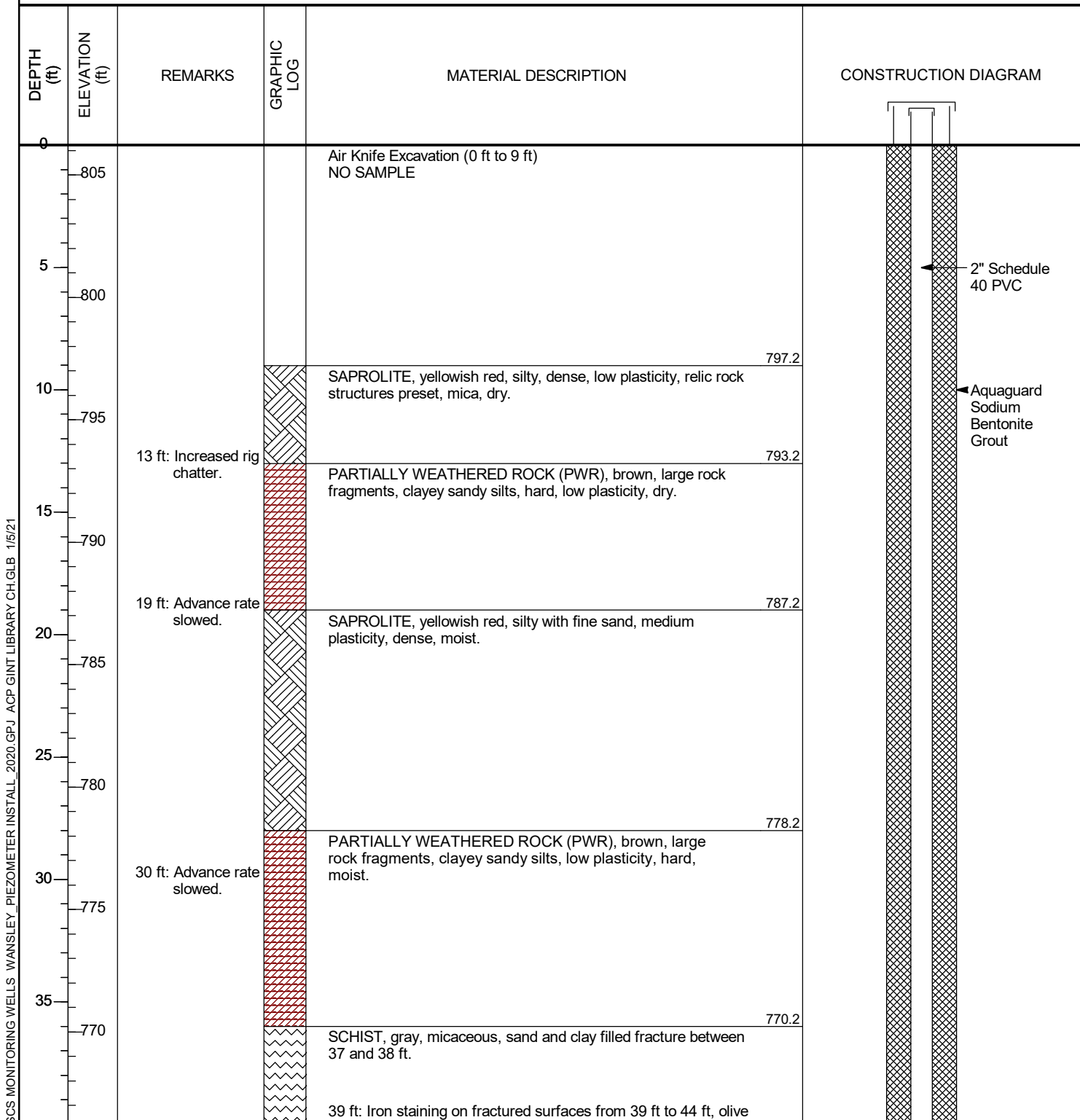
Bottom of borehole at 79.0 feet.

CLIENT Southern Company Services **PROJECT NAME** Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT NUMBER GW7327 **PROJECT LOCATION** Plant Wansley AP-1
DATE STARTED 10/28/20 **COMPLETED** 10/28/20 **NORTHING** 1240184.18 ft **EASTING** 2023616.69 ft
DRILLER Cascade Drilling **GROUND ELEVATION** 805.98 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic **TOP OF CASING ELEVATION** 808.98 ft
SAMPLING METHOD 4 in. core 6 in. override **GEOPHYSICAL CONTRACTOR** ---
RIG TYPE Terrasonic 1051181 **LOGGED BY** T. Wilson **CHECKED BY** A. Reimer



SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21

CLIENT Southern Company Services **PROJECT NAME** Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT NUMBER GW7327 **PROJECT LOCATION** Plant Wansley AP-1
DATE STARTED 10/15/20 **COMPLETED** 10/15/20 **NORTHING** 1240190.93 ft **EASTING** 2023620.36 ft
DRILLER Cascade Drilling **GROUND ELEVATION** 806.22 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic **TOP OF CASING ELEVATION** 809.28 ft
SAMPLING METHOD 4 in. core 6 in. override **GEOPHYSICAL CONTRACTOR** ---
RIG TYPE Terrasonic 1051181 **LOGGED BY** T. Kessler **CHECKED BY** A. Reimer



SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21

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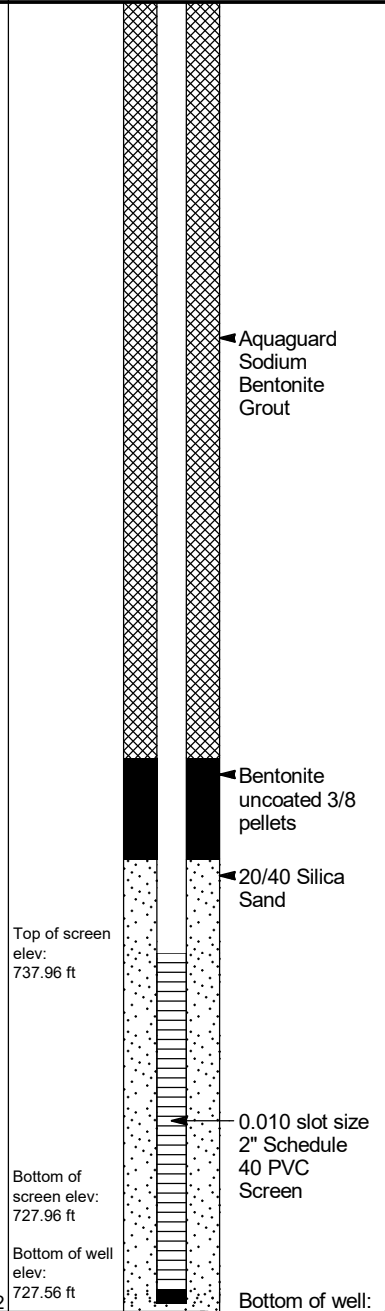
CLIENT Southern Company Services

PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation

PROJECT NUMBER GW7327

PROJECT LOCATION Plant Wansley AP-1

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
40	-765			staining on fractured surfaces from 44 ft to 48 ft, quartz banding, garnets present. SCHIST, gray, micaceous, sand and clay filled fracture between 37 and 38 ft. (continued)	
45	-760	49 ft: Slow advance rate, moderate rig chatter.		48 ft to 49 ft: Highly weathered, gray, silty sands and gravel, wet.	
50	-755				
55	-750	59 ft: Slow advance rate, increased rig chatter.		59 ft: Highly fractured, gravel and weathered cobbles, less garnet, sand zone at 64 ft.	
60	-745				
65	-740	69 ft: Slow advance rate, significant rig chatter.		69 ft: Highly fractured, gravel and weathered cobbles, some quartzite fragments.	
70	-735				
75	-730				


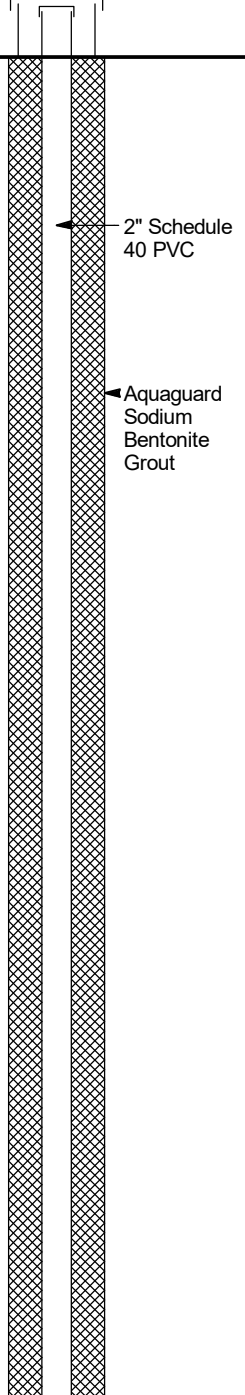
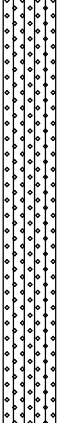



Bottom of borehole at 79.0 feet.

SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 1/5/21

CLIENT Southern Company Services
PROJECT NUMBER GW7327
DATE STARTED 10/29/20 **COMPLETED** 10/29/20
DRILLER Cascade Drilling
DRILLING METHOD Sonic
SAMPLING METHOD 4 in. core 6 in. override
RIG TYPE Terrasonic 1051181

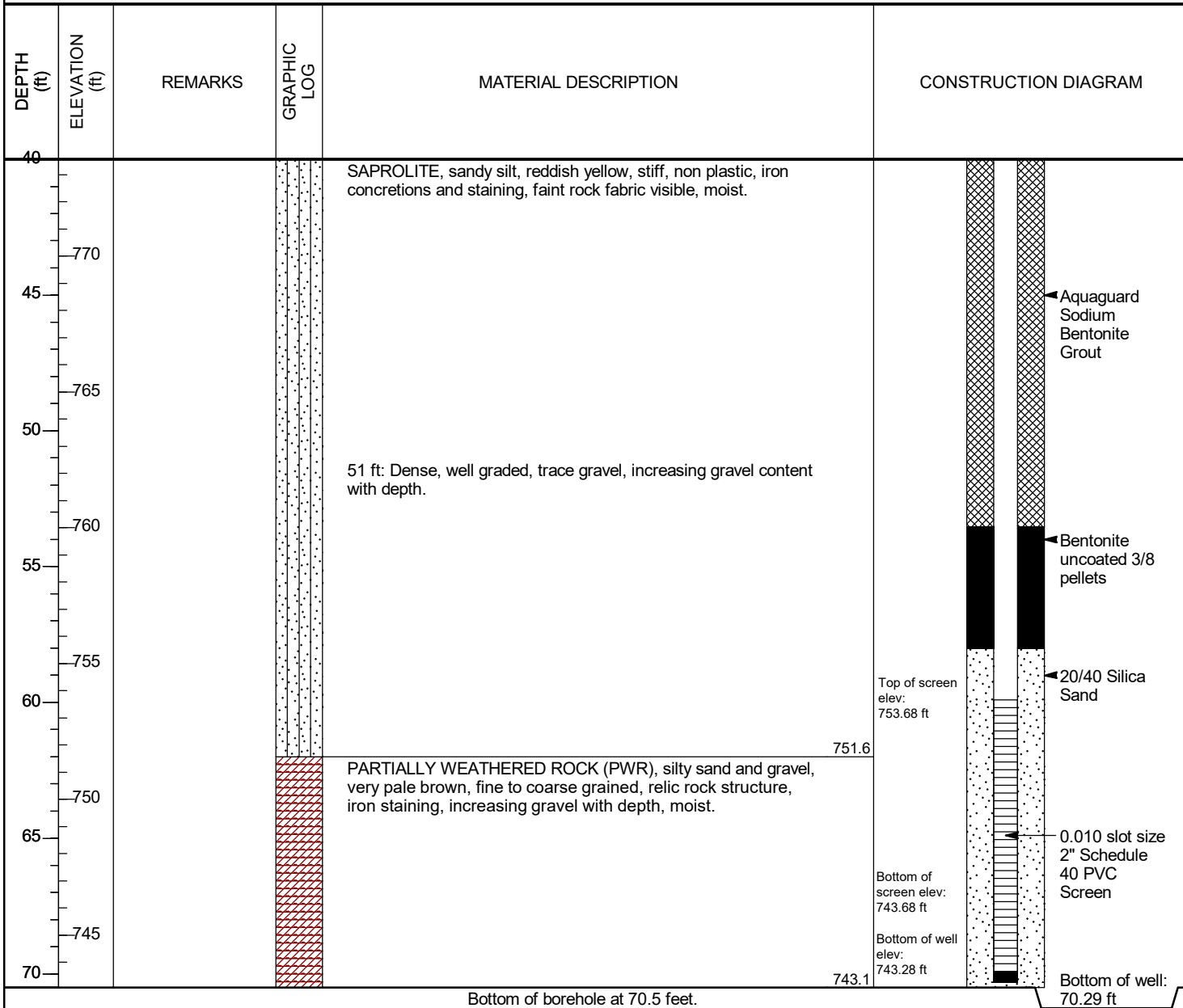
PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT LOCATION Plant Wansley AP-1
NORTHING 1240066.02 ft **EASTING** 2022624.73 ft
GROUND ELEVATION 813.57 ft **BORING DIAMETER** 6 in.
TOP OF CASING ELEVATION 816.18 ft
GEOPHYSICAL CONTRACTOR ---
LOGGED BY T. Wilson **CHECKED BY** A. Reimer

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0				Air Knife Excavation (0 ft to 4 ft) NO SAMPLE	
5	810			SILTY CLAY with sand, red, soft, low plasticity, trace root material, moist. 809.6	 <p>2" Schedule 40 PVC</p> <p>Aquaguard Sodium Bentonite Grout</p>
10	805			SILTY SAND with clay, reddish yellow, fine grained, moist, loose, poorly graded, moist. 806.6	
20	795			10 ft: Increasing clay content with depth. 793.6	
25	790			NO RECOVERY (20 ft to 23 ft) 790.6	
35	780			SILTY CLAY with sand, reddish yellow, soft, low plasticity, fine grained, moist. 773.6	

SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH (GLB) 1/5/21

CLIENT Southern Company Services **PROJECT NAME** Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation

PROJECT NUMBER GW7327 **PROJECT LOCATION** Plant Wansley AP-1

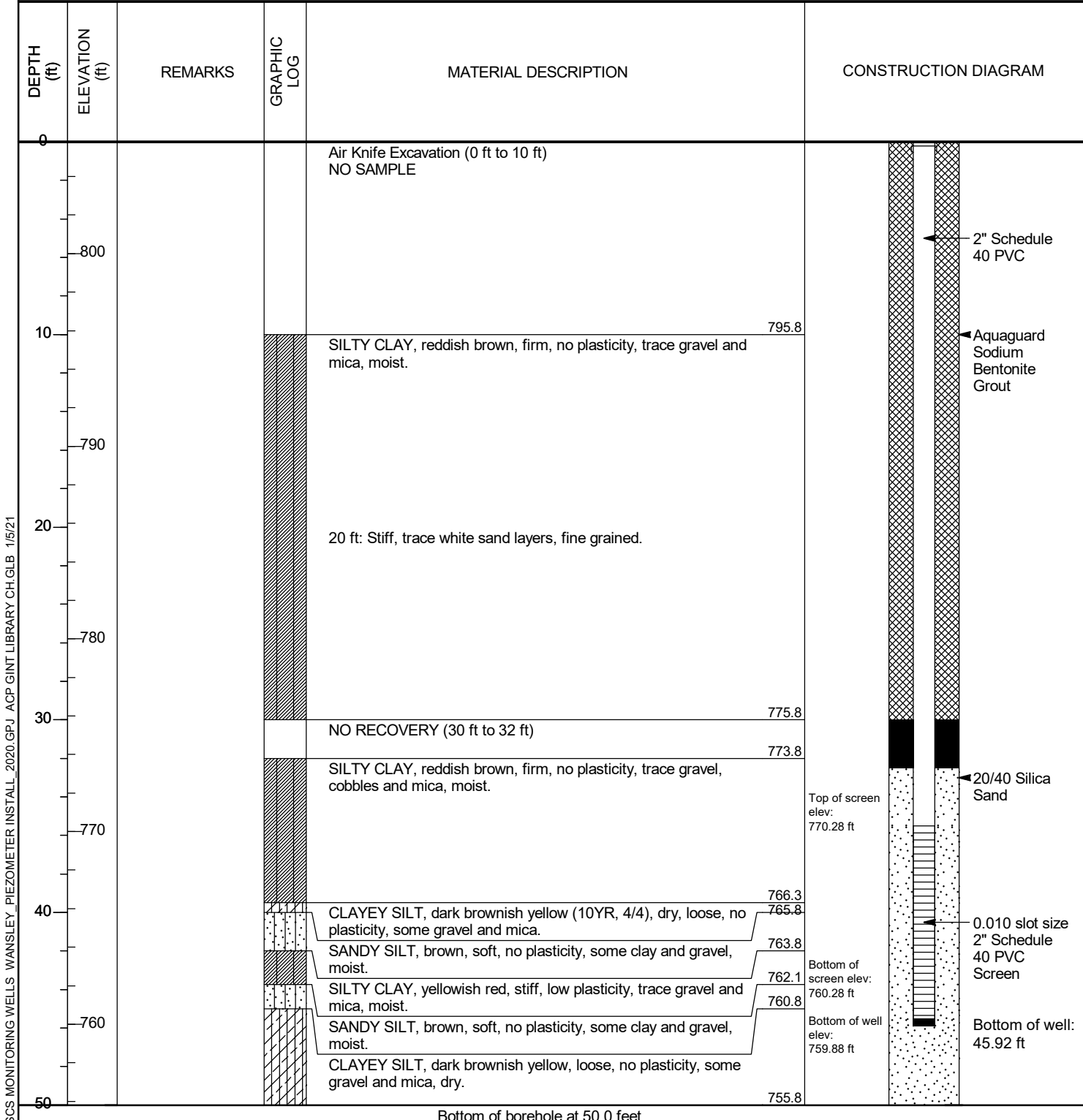


Bottom of borehole at 70.5 feet.

SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 1/5/21

CLIENT Southern Company Services
PROJECT NUMBER GW7327
DATE STARTED 10/30/20 **COMPLETED** 10/31/20
DRILLER Cascade Drilling
DRILLING METHOD Sonic
SAMPLING METHOD 4 in. core 6 in. override
RIG TYPE Terrasonic 1051181

PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation
PROJECT LOCATION Plant Wansley AP-1
NORTHING 1244317.13 ft **EASTING** 2028839.68 ft
GROUND ELEVATION 805.80 ft **BORING DIAMETER** 6 in.
TOP OF CASING ELEVATION 805.30 ft
GEOPHYSICAL CONTRACTOR ---
LOGGED BY T. Wilson **CHECKED BY** A. Reimer



SCS MONITORING WELLS_WANSLEY_PIEZOMETER INSTALL_2020.GPJ_ACP GINT LIBRARY CH.GLB 1/5/21

CLIENT <u>Southern Company Services</u>	PROJECT NAME <u>Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation</u>
PROJECT NUMBER <u>GW7327</u>	PROJECT LOCATION <u>Plant Wansley AP-1</u>
DATE STARTED <u>10/31/20</u> COMPLETED <u>11/1/20</u>	NORTHING <u>1244304.90 ft</u> EASTING <u>2028853.29 ft</u>
DRILLER <u>Cascade Drilling</u>	GROUND ELEVATION <u>805.77 ft</u> BORING DIAMETER <u>6 in.</u>
DRILLING METHOD <u>Sonic</u>	TOP OF CASING ELEVATION <u>805.24 ft</u>
SAMPLING METHOD <u>4 in. core 6 in. override</u>	GEOPHYSICAL CONTRACTOR <u>---</u>
RIG TYPE <u>Terrasonic 1051181</u>	LOGGED BY <u>T. Wilson</u> CHECKED BY <u>A. Reimer</u>

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0				Air Knife Excavation (0 ft to 10 ft) NO SAMPLE	
				795.8	
10				NO RECOVERY (10 ft to 11 ft) SILT, dark yellowish brown to reddish brown, soft, few coarse gravel, some clay, non plastic, moist.	
				794.8	
				20 ft: Stiff.	
				775.8	
30				NO RECOVERY (30 ft to 31 ft) SILT, reddish brown, soft, few coarse gravel, some clay, non plastic, moist.	
				774.8	
				767.3	
40				CLAYEY SILT, dark yellowish brown, soft, few coarse gravel mica present, dry.	
				755.8	

SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH.GLB 11/5/21

(Continued Next Page)

CLIENT Southern Company Services **PROJECT NAME** Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation

PROJECT NUMBER GW7327 **PROJECT LOCATION** Plant Wansley AP-1

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
50				SANDY SILT, yellowish brown, yellowish red, light greenish gray, and strong brown, stiff, trace fine to coarse gravel, some clay, non plastic, mica present, moist.	
	746.8				
60	745.8			CLAYEY SILT, strong brown, soft, few coarse gravel mica present, dry.	
	745.8			SANDY SILT, yellowish brown, yellowish red, light greenish gray, and strong brown, stiff, trace fine to coarse gravel, some clay, non-plastic, mica present, moist.	
	740				
70					
	730				
80	725.8			CLAYEY SILT, reddish brown, very stiff, few fine to coarse gravel, little fine-medium sand, medium plasticity, moist.	
	725.8				
	720				
90	715.8			SANDY SILT, strong brown, very stiff, little coarse gravel, some clay, non-plastic, mica present, moist.	
	715.8				
	710				
100	705.8			NO RECOVERY (100 ft to 102 ft)	
	705.8				
	703.8			SILTY CLAY, red, stiff, trace fine to coarse gravel, non-plastic, increasing clay content with depth, moist.	
	703.8				
	700				

SCS MONITORING WELLS WANSLEY_PIEZOMETER INSTALL_2020.GPJ ACP GINT LIBRARY CH GLB 1/5/21


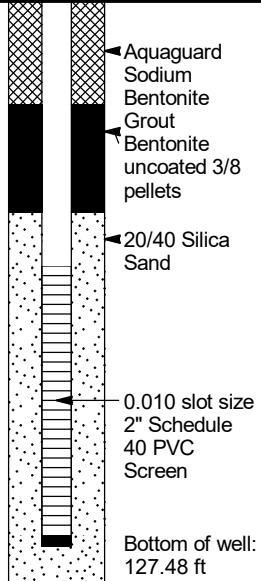


← Aquaguard Sodium Bentonite Grout

CLIENT Southern Company Services

PROJECT NAME Plant Wansley Ash Pond 1 (AP-1) Piezometer Installation

PROJECT NUMBER GW7327

PROJECT LOCATION Plant Wansley AP-1

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
110				SILTY CLAY, red, stiff, trace fine to coarse gravel, non-plastic, increasing clay content with depth, moist. <i>(continued)</i>	 <p>Top of screen elev: 688.69 ft</p> <p>Bottom of screen elev: 678.69 ft</p> <p>Bottom of well elev: 676.29 ft</p> <p>Bottom of well: 127.48 ft</p>
	690			SILT, light greenish gray, soft, some clay, non-plastic, trace subrounded gravel, moist.	
120				NO RECOVERY (120 ft to 126 ft)	
	680			SCHIST, light grayish olive, weathered, numerous natural fractures with iron staining, with weathered garnets and mica, thinly foliated.	

Bottom of borehole at 129.0 feet.

APPENDIX C

Geophysical Logging Report

Geophysical Logging Report

PZ – 22, PZ – 23D, PZ – 23S, PZ – 25, PZ – 26D

Georgia Power Plant Wansley, Carrollton, Georgia

Performed for:

Geosyntec

November 11, 2020

**Geophysical Logging Report: PZ – 22, PZ – 23D, PZ – 23S, PZ – 25, PZ – 26D
Georgia Power Plant Wansley, Carrollton, Georgia**

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Appendices

Appendix 1	Fracture Summary Table
Appendix 2	Schmidt Stereonets and Rose Diagrams
Appendix 3	Fluid Temperature and Conductivity Logs and Fracture Characteristics
Appendix 4	Geophysical Logs


SIGNATURE PAGE

This report, entitled “Geophysical Logging Report: Geophysical Logging Report: PZ – 22, PZ – 23D, PZ – 23S, PZ – 25, PZ – 26D Georgia Power Plant Wansley, Carrollton, Georgia” has been prepared for Geosyntec located in Kennesaw, Georgia. It has been prepared under the supervision of Mr. Jorgen Bergstrom at the request of and the exclusive use of Geosyntec. This report has been prepared in accordance with accepted quality control practices and has been reviewed by the undersigned.

GEL Solutions, LLC
A Member of the GEL Group, Inc.



Jorgen Bergstrom, P.Gp.
Senior Geophysicist



Nicholas Rebman
Geophysical Specialist

November 11, 2020

Date

EXECUTIVE SUMMARY

GEL Solutions performed geophysical borehole logging services in 5 borings located at a Georgia Power's Plant Wansley in Carrollton, Georgia. The field investigation was performed on October 13, October 14, and October 19 over the course of two separate mobilizations. This investigation was conducted to aid Geosyntec in evaluating potential pathways for groundwater migration through fractured bedrock at the site. The geophysical logs consisted of acoustic televiewer, caliper, fluid conductivity, fluid temperature, single point resistance (SPR), spontaneous potential (SP). Fluid temperature and conductivity data was collected under ambient groundwater conditions in all wells and under pumping conditions in select wells.

The logging data was analyzed to determine the location and orientation of fractures; and other features. In addition to these data sets, synthetic caliper logs were calculated from the acoustic televiewer travel time data to aid in the interpretation. The logs were analyzed for fractures and other features. Dip and azimuth (dip direction), and aperture were calculated for each detected fracture based on the televiewer dataset.

1.0 INTRODUCTION

GEL Solutions performed geophysical borehole logging services in 5 borings located at Georgia Power's Plant Wansley located in Carrollton, Georgia. The geophysical logs consisted of acoustic televiewer, 3-arm caliper, fluid conductivity, fluid temperature, single point resistance (SPR), and spontaneous potential (SP). The fluid temperature and conductivity logs were collected under ambient groundwater conditions in all wells and under pumping conditions in 1 well. The field investigation was performed on October 13, October 14, and October 19 during two separate mobilizations. The logging data was analyzed to determine the location and orientation of fractures and other features. In addition to these data sets, synthetic caliper logs were calculated from the acoustic televiewer travel time data to aid in the interpretation.

2.0 EQUIPMENT AND METHODOLOGY

The information below is an overview of the geophysical methodologies used for this investigation. The intent of this overview is to give the reader a better understanding of each method, and background information as to what is actually measured, the resolution of the method, and the limitations imposed by site-specific subsurface conditions.

2.1 Acoustic Televiewer

Acoustic televiewer (ATV) logging produces a high resolution, magnetically oriented digital image of the borehole wall to map the location and orientation of intersecting fractures, foliations, and lithologic contacts. The Acoustic televiewer tool emits a rotating, narrow, acoustic beam that is reflected off the borehole wall. The travel time and amplitude of the reflected wave are recorded by the tool and used to create borehole images. Both datasets are useful for identifying the location and orientation of fractures. The amplitude of the reflected signal will decrease at the location of fractures and the travel time will increase. The travel time data can also be used for developing a high resolution caliper log for a more comprehensive analysis of fractures. Acoustic televiewers can only be used in fluid filled boreholes. However, the fluid does not have to be optically clear for the method to work.

When operating the ATV, a "time window" is set based on the borehole diameter. The time window is the time interval in which the ATV instrument searches for an echo from the borehole wall. For smaller increases in borehole diameter around fractures and sections of weaker rock, the ATV typically records an

accurate borehole diameter (correlates well with three-arm caliper data). However, if borehole openings are much larger than the borehole diameter, the echo from the borehole wall may fall outside the time window, or be too weak to be detected. In these situations, borehole diameters recorded with ATV may be inaccurate. Since ATV only records the reflection from the borehole wall, the data cannot be used to determine how far a fracture extends from the borehole. The acoustic televiewer has a vertical resolution of 2 millimeters.

2.2 3-Arm Caliper

Caliper logging is used to generate a profile of the borehole diameter with depth. The tool measures the borehole diameter using three spring-loaded arms. Narrow enlargements in the borehole diameter can, in most cases, be attributed to fractures. Caliper logging can be conducted above and below the water surface.

2.3 Fluid Temperature

Fluid temperature logging is used to identify where water enters or exits the borehole. In the absence of fluid flow, a gradual increase on water temperature of approximately 1°F per 100 feet of depth is expected. Rapid changes in the fluid temperature indicate water-producing or water-receiving zones. Little or no temperature gradient indicates intervals of vertical flow.

2.4 Fluid Conductivity

Fluid conductivity logging is used to measure the electrical conductivity of the fluid in the borehole. Variations in fluid conductivity can be contributed to concentration variations of dissolved solids. These differences can occur when sources of water have contrasting chemistry and have come from different transmissive zones. Fluid temperature and conductivity are measured concurrently using the same logging tool.

2.5 Single Point Resistance (SPR)

Single point resistance logging involves passing an alternate current between a surface electrode and a probe electrode and measuring the voltage difference created by the current. SPR is then calculated using Ohm's law. SPR is the sum of cable resistance, and the resistance based on the composition of the medium, the cross sectional area and length of the path through the medium. Therefore, the single point resistance log does not provide quantitative data. In general, SPR increases with increasing grain size and decreases with increasing borehole diameter, fracture density, and the concentration of dissolved solids in the water. Single-point resistance logs are useful in the determination of lithology, water quality, and location of fracture zones

2.6 Spontaneous Potential (SP)

SP logging is conducted to measure naturally occurring voltage differences along a borehole. The method has been found useful for delineating sandstone/shale layering and other boundaries between permeable and impermeable beds. The measurements are made with reference to an electrode at ground level. Therefore, SP logging does not provide quantitative data.

3.0 FIELD PROCEDURES

All GEL Solutions activities on-site were supervised by a senior geophysicist. For this investigation, GEL Solutions used a Mount Sopris Matrix logging system. Pumping tests during HPF testing were conducted using a Grundfos Redi-Flow-2 water pump with variable speed control box and an in-situ Mini-Troll pressure transducer with logging capabilities. The pump is placed above the interval to be analyzed and preferably in the casing (unless the water level is too low). HPF logging under pumping conditions commenced after the borehole water level had stabilized. HPF logging was conducted at every 5 feet throughout the logging intervals under ambient and pumping conditions. More closely spaced readings were then conducted at sections with abrupt changes in flow. A summary of the configuration of the boreholes, pumping rates, and water levels is provided below. All depth measurements are referenced from the ground surface. All borings are surface cased and open hole below the casing.

Logging Configuration Summary

Well ID:	PZ - 22	PZ - 23D	PZ - 23S	PZ - 25	PZ - 26D
Casing Material:	Steel	Steel	Steel	Steel	Steel
Casing Diameter (in):	5.5	5.5	5.5	5.5	5.5
Open Hole (ft):	8.3-50.3	20.4-90.7	29.5-68.2	48.2-70.6	38.2-73.3
Open Hole Diameter (in):	6.2	6.2	6.2	6.2	6.2
Ambient Groundwater Level (ft):	12.4	47.5	35.5	23.6	12.3
Pump Depth (ft):	-	-	-	55	-
Pump Rate (Gallon per Minute):	-	-	-	0.2	-
Groundwater Level While Pumping (ft):	-	-	-	47.2	-

4.0 DATA PROCESSING AND RESULTS

The logs were analyzed for fractures and other features using WellCAD software, manufactured by Advanced Logic Technology. The travel time data from the acoustic televiewer log was used to develop a maximum caliper log. Fractures were interpreted through a complete data analysis of all logs. Dip and azimuth (dip direction) and aperture were calculated for each detected fracture. The fracture data was corrected from apparent to true dip and azimuth using deviation logs included with the televiewer dataset, and from magnetic north to true north by rotating the fracture azimuths 4.8° counterclockwise. Magnetic north is 4.8° west of true north at the site (according to National Oceanic and Atmospheric Administration). The reported azimuth is measured clockwise from true north (Figure 1). A fracture summary table including fracture attributes is provided in Appendix 1. Major fractures are shown in bold.

Schmidt stereonet (lower hemisphere) with fracture characteristics and fracture rose diagrams are presented on Appendix 2. Fluid Temperature and Conductivity logs and fracture characteristics are shown on Appendix 3. All logs are presented on Appendix 4. All depths are referenced from ground surface.

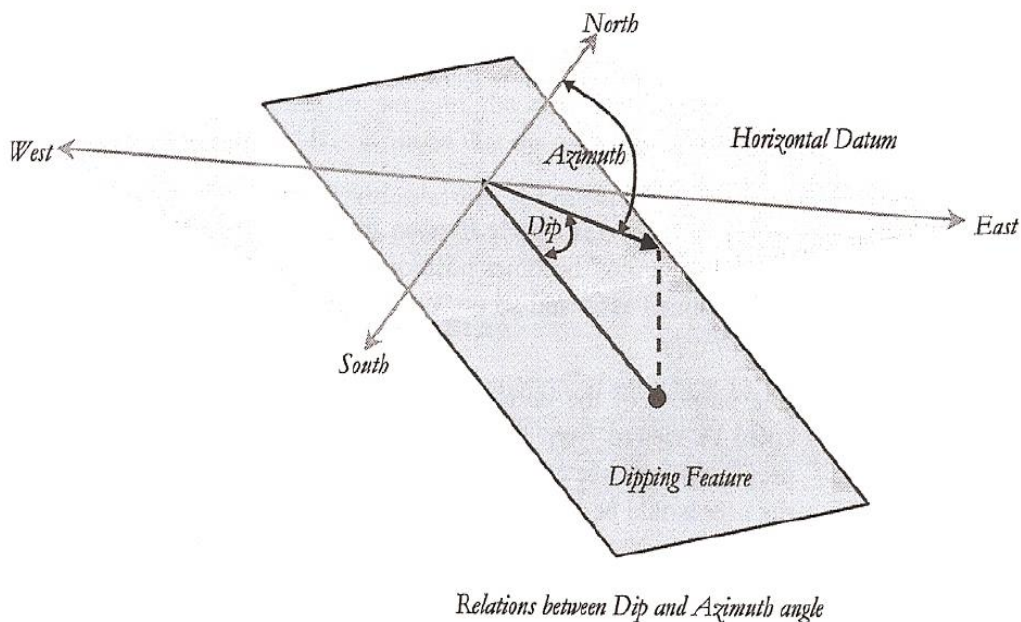


Figure 1: Explanation of azimuth and dip for fractures

Appendix 1

PZ - 22: Fractures

Depth	Azimuth	Dip	Aperture
ft	deg	deg	mm
12.1	260	34	1
12.3	258	30	1
12.9	129	33	10
14.3	43	82	5
14.8	291	74	1
14.9	69	49	1
16.6	125	28	1
16.7	129	27	1
18.8	136	23	1
18.9	50	75	5
19.6	129	19	11
21.4	68	1	14
21.6	152	12	23
22.3	285	64	1
23.5	132	34	8
23.6	144	38	13
24.5	126	29	12
25.3	142	28	14
26.9	152	34	1
27.1	141	35	1
29.2	320	61	38
29.4	306	81	30
30.4	21	49	1
30.9	2	61	61
33.5	314	75	17
35.3	268	68	3
37.0	278	77	1
37.2	284	75	7
39.9	54	1	1
40.9	163	47	1
41.0	315	79	1
43.2	251	8	1
43.7	150	27	1
43.8	149	26	9
45.0	308	83	1
45.7	155	52	10
46.0	142	44	1
46.5	147	41	50
48.7	325	74	46

PZ - 23D: Fractures

Depth	Azimuth	Dip	Aperture
ft	deg	deg	mm
48.5	230	66	1
50.4	211	80	1
53.2	271	19	1
53.7	112	26	1
54.3	295	64	1
55.8	305	73	1
56.1	149	15	12
56.3	147	12	12
57.1	313	71	1
58.3	132	73	1
58.4	128	81	10
58.4	141	46	1
60.8	136	15	1
61.2	117	28	1
61.9	158	36	1
64.0	287	69	3
65.9	235	27	14
66.1	305	79	7
66.9	174	31	24
67.6	322	36	10
68.7	147	14	1
69.1	141	24	21
69.4	148	34	23
71.0	164	73	1
73.7	313	61	6
73.9	300	75	26
75.0	309	63	1
75.1	310	59	1
75.9	9	65	1
77.0	143	85	6
77.2	98	67	3
81.3	341	73	1
81.5	16	81	1
81.8	176	75	1
81.8	179	71	1
82.1	345	68	1
83.6	142	7	6
83.8	141	21	7
84.6	307	69	1

PZ - 23D: Fractures

Depth	Azimuth	Dip	Aperture
ft	deg	deg	mm
84.7	193	67	1
85.0	311	70	1
86.7	327	65	1
86.8	294	66	1
86.8	298	76	1
87.0	305	79	4
88.1	299	71	1
89.0	137	29	1
89.1	137	29	1
89.9	43	2	1

PZ - 23S: Fractures

Depth	Azimuth	Dip	Aperture
ft	deg	deg	mm
35.7	163	9	14
36.0	323	27	1
36.1	126	45	4
36.8	282	13	27
37.2	203	55	1
38.0	169	32	5
38.2	195	9	1
38.9	180	25	18
39.7	58	2	1
40.1	246	9	48
40.2	208	84	1
41.6	29	78	2
41.6	314	69	6
43.1	134	33	17
43.7	151	22	1
44.2	129	33	1
44.6	130	46	1
46.8	311	56	1
47.7	310	62	6
48.7	311	57	8
48.9	319	57	1
50.7	212	83	3
51.0	313	60	8
51.9	317	73	3
52.2	319	77	3
53.2	319	58	4
56.2	162	21	6
56.3	33	84	1
59.0	36	86	1
59.1	53	2	1
59.1	141	45	1
59.5	128	28	1
62.7	162	28	74
65.4	151	26	52
65.8	25	81	1
66.4	25	80	2
66.8	30	76	1
68.1	26	79	1

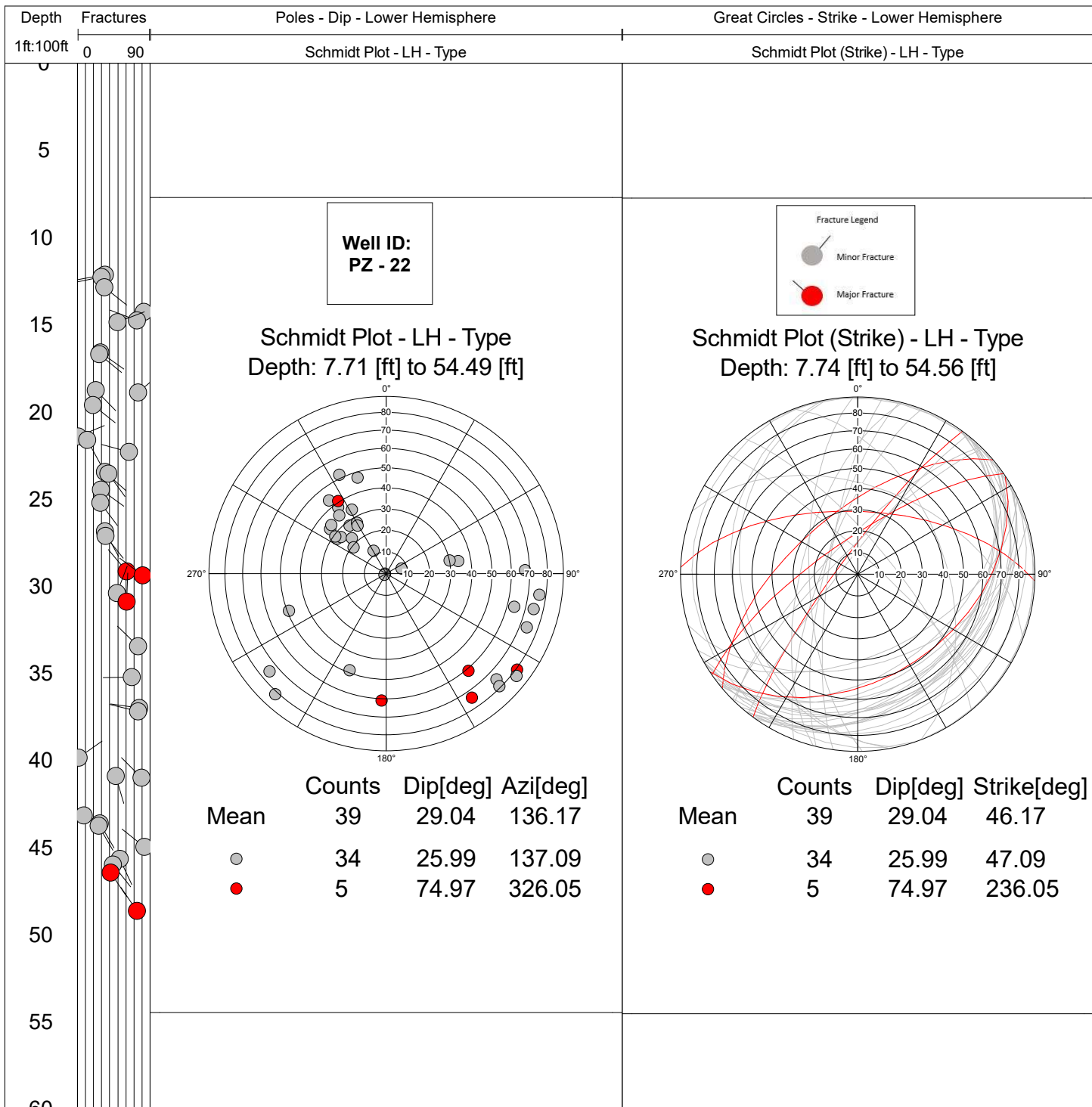
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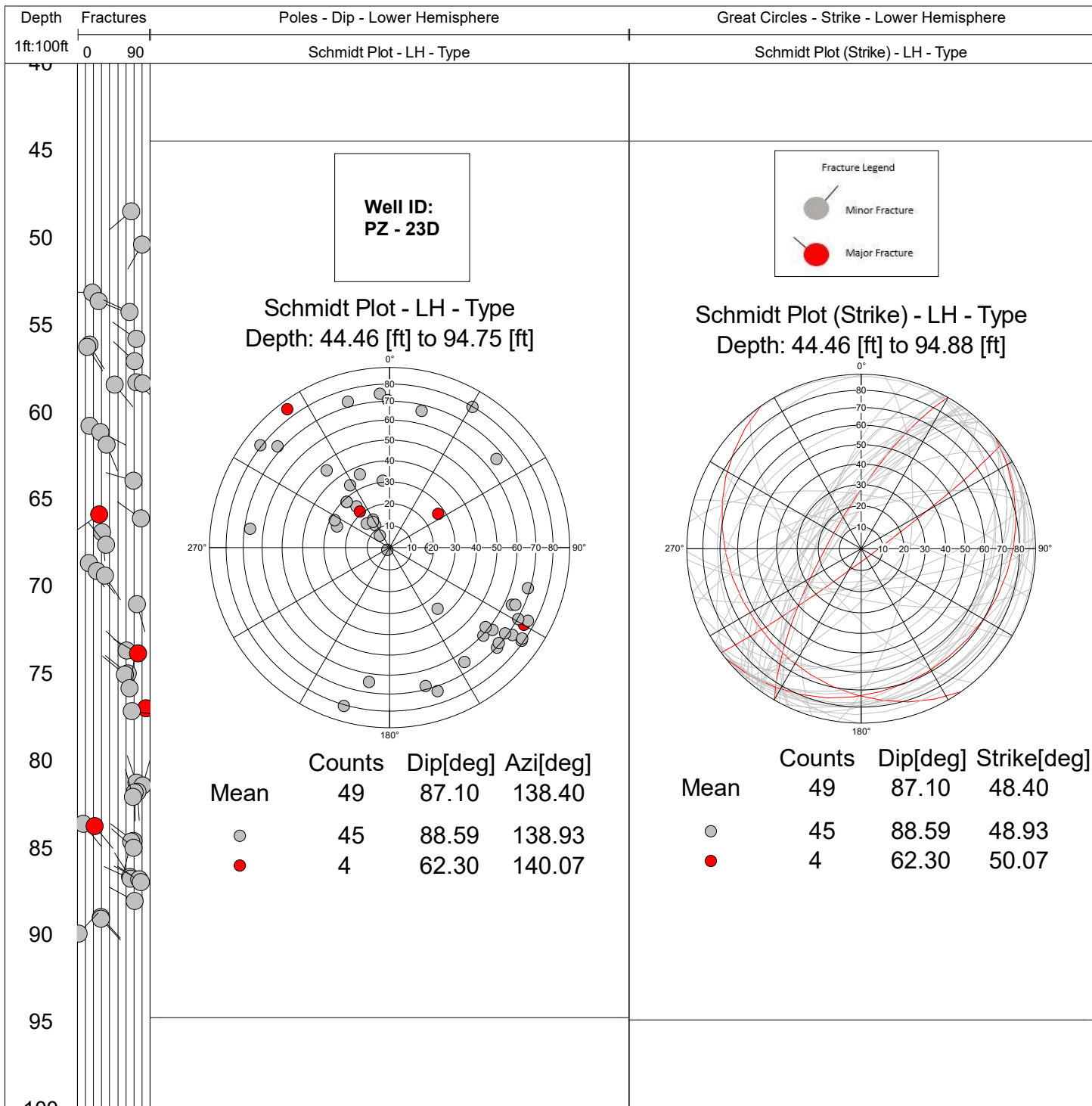
Depth	Azimuth	Dip	Aperture
ft	deg	deg	mm
50.4	91	22	1
50.6	73	33	1
52.1	100	10	1
52.8	93	34	5
54.1	138	34	104
55.8	127	19	1
56.7	297	42	5
56.9	145	27	1
57.2	136	30	1
57.3	132	79	1
57.5	135	29	1
57.9	129	26	13
57.9	123	80	1
59.1	108	30	1
59.5	52	2	1
59.9	306	74	1
60.1	116	13	1
60.2	121	13	1
61.5	310	45	7
62.2	304	76	1
62.6	284	73	1
62.9	296	69	1
64.3	157	30	9
64.9	306	57	1
65.3	313	63	1
66.0	336	47	1
67.1	327	69	1
67.1	292	58	1
67.4	303	60	1
68.1	341	62	1
68.8	300	51	1
69.3	316	55	1
70.5	319	68	5

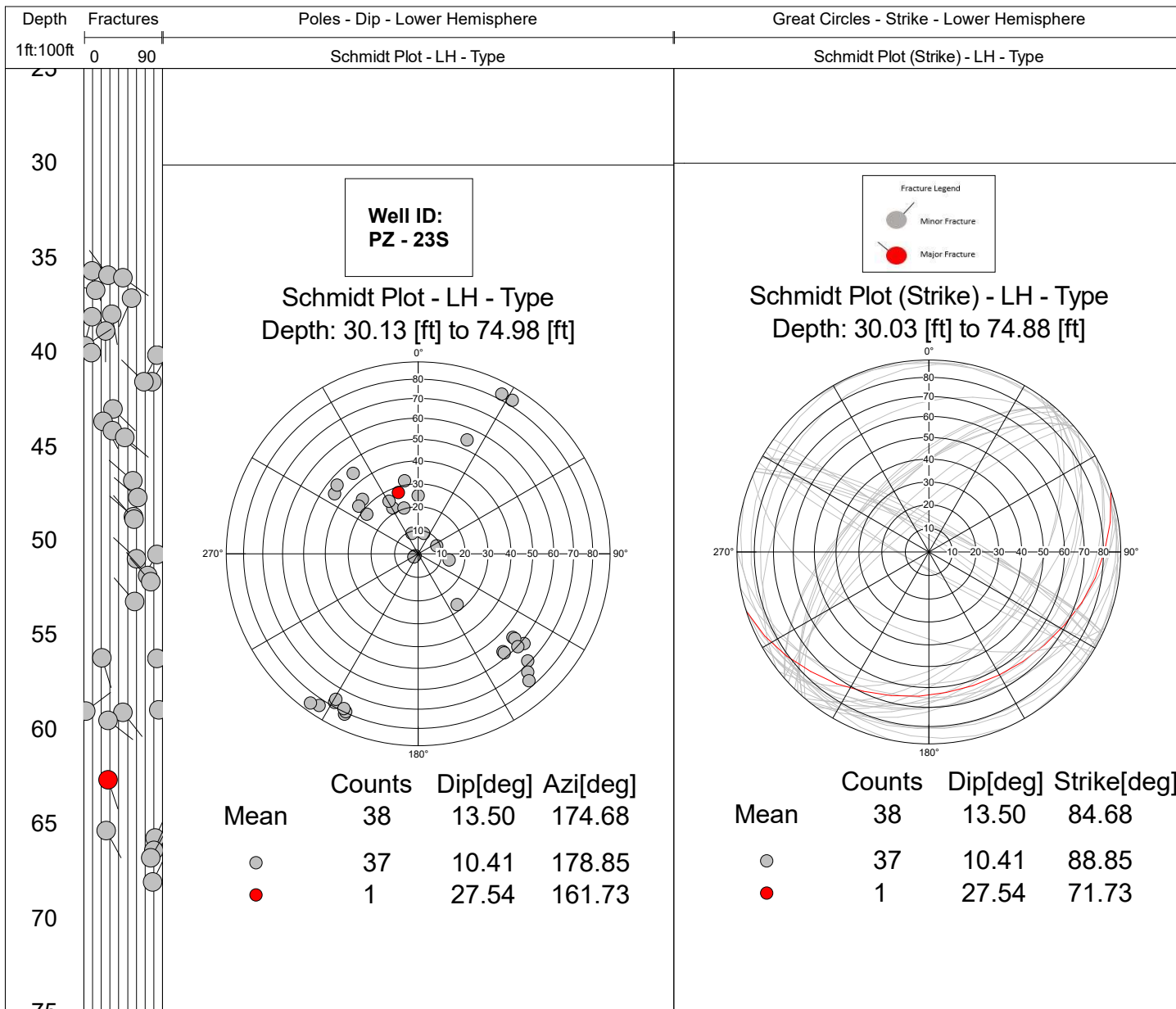
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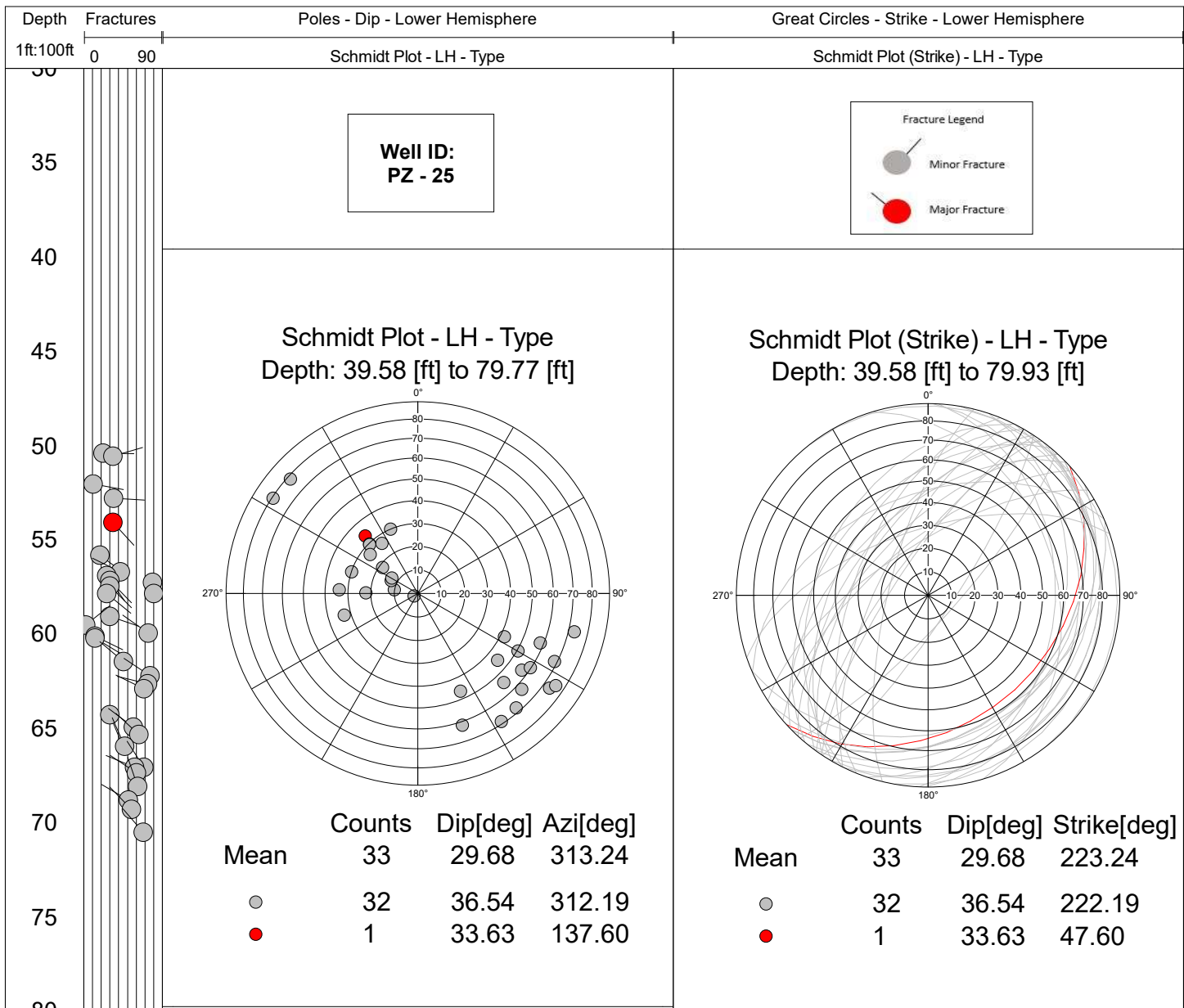
Depth	Azimuth	Dip	Aperture
ft	deg	deg	mm
40.9	74	63	1
41.1	356	69	1
42.4	312	56	9
42.8	271	61	1
43.0	260	63	1
43.7	261	65	1
44.5	257	50	1
45.3	257	64	1
45.5	254	66	1
46.0	267	60	1
47.3	261	62	1
48.4	141	49	3
48.6	141	52	1
48.6	239	55	1
49.0	140	48	1
49.6	108	30	1
50.1	83	52	1
50.6	109	44	1
51.5	329	84	4
53.9	138	78	5
55.5	222	13	1
55.8	123	80	5
57.6	260	18	1
58.4	137	47	27
59.4	137	57	8
60.6	156	42	1
61.4	248	72	1
63.4	327	78	1
63.6	252	33	1
64.2	323	24	1
65.2	145	24	1
66.0	160	47	1
66.5	163	35	1
67.6	253	54	1
68.0	240	21	1
68.2	149	37	8
69.0	41	53	6
69.6	24	42	11
70.4	123	40	1
70.5	121	40	1
70.8	126	38	1
71.6	304	80	1
72.5	148	54	63

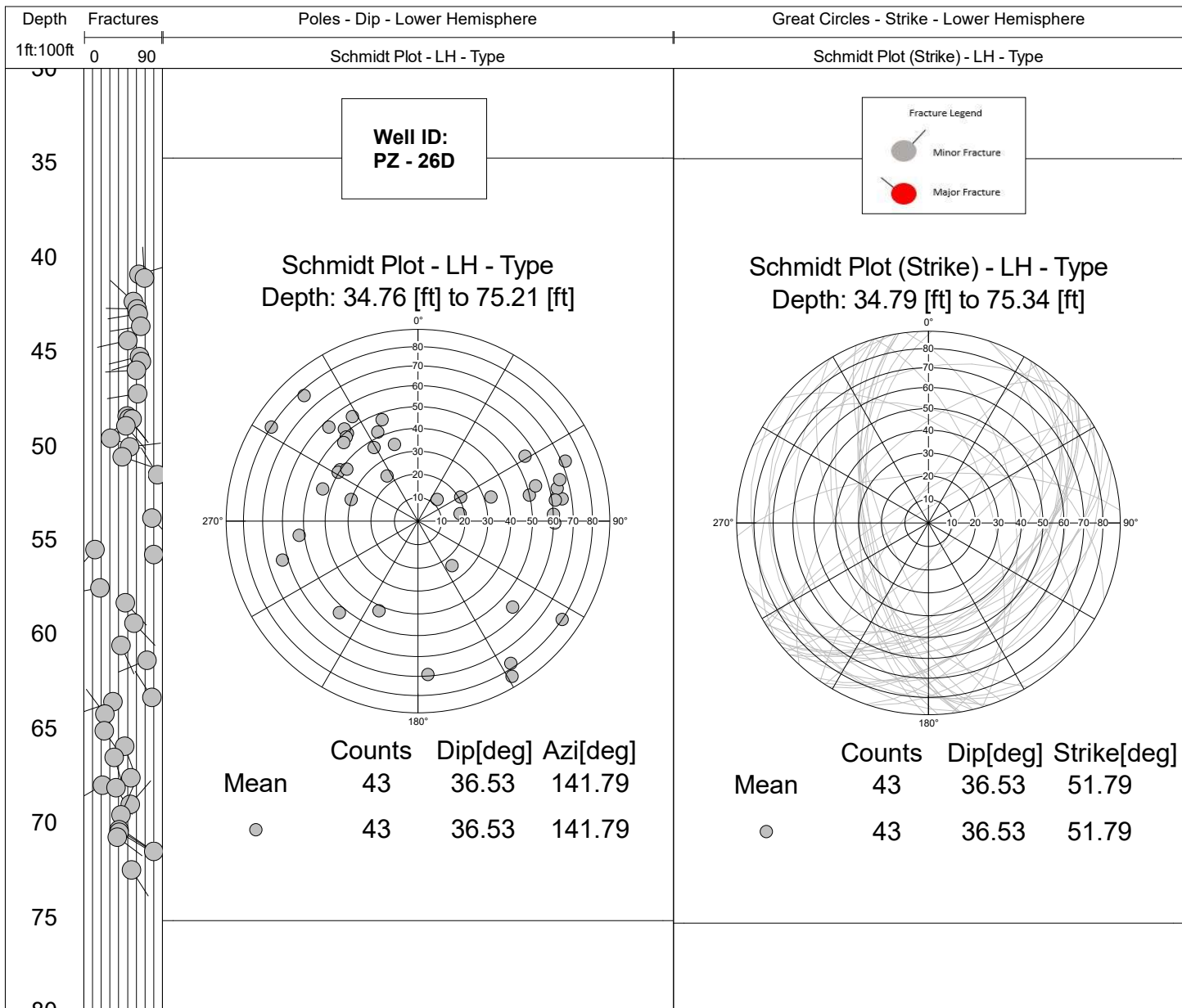
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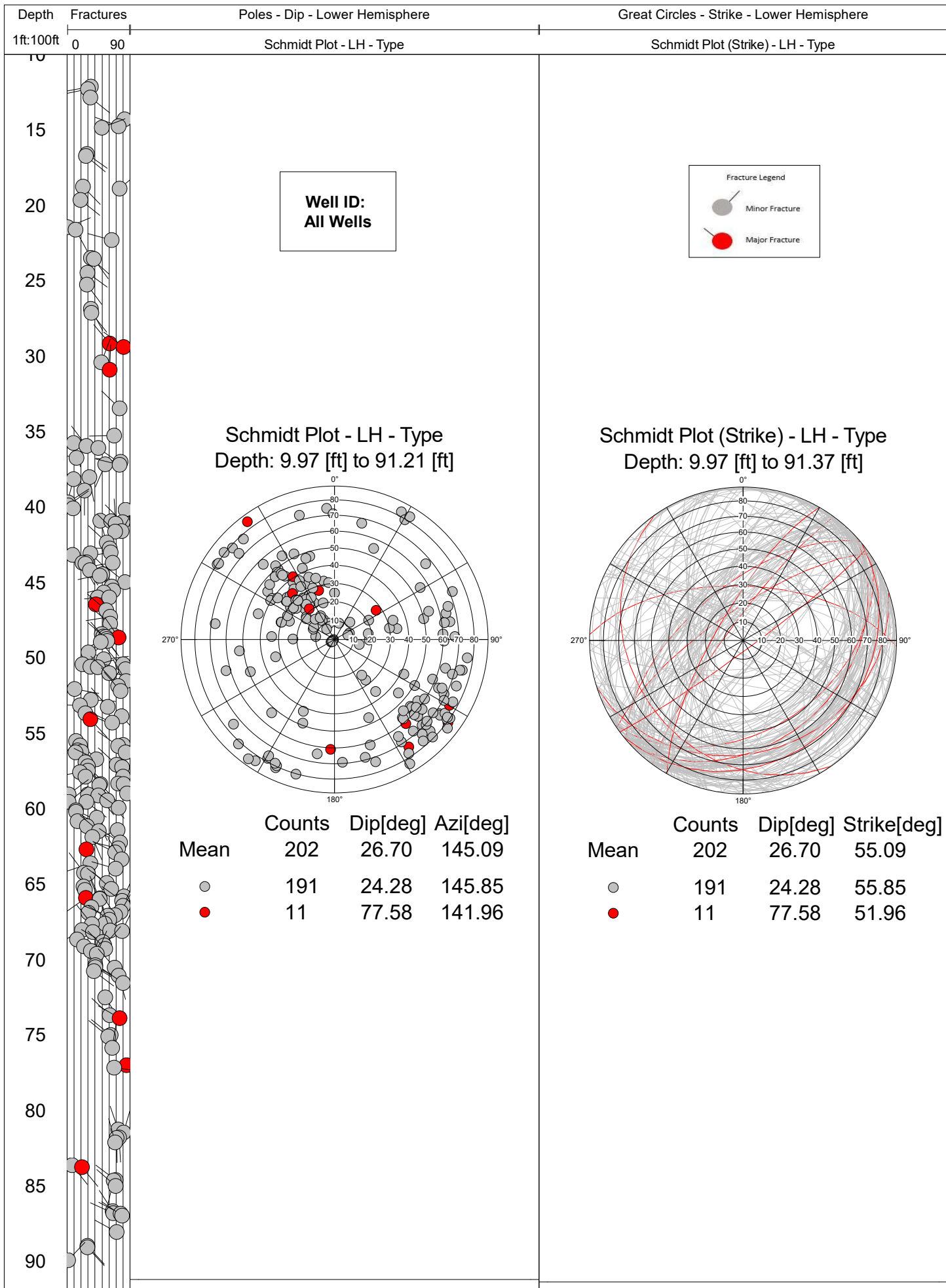


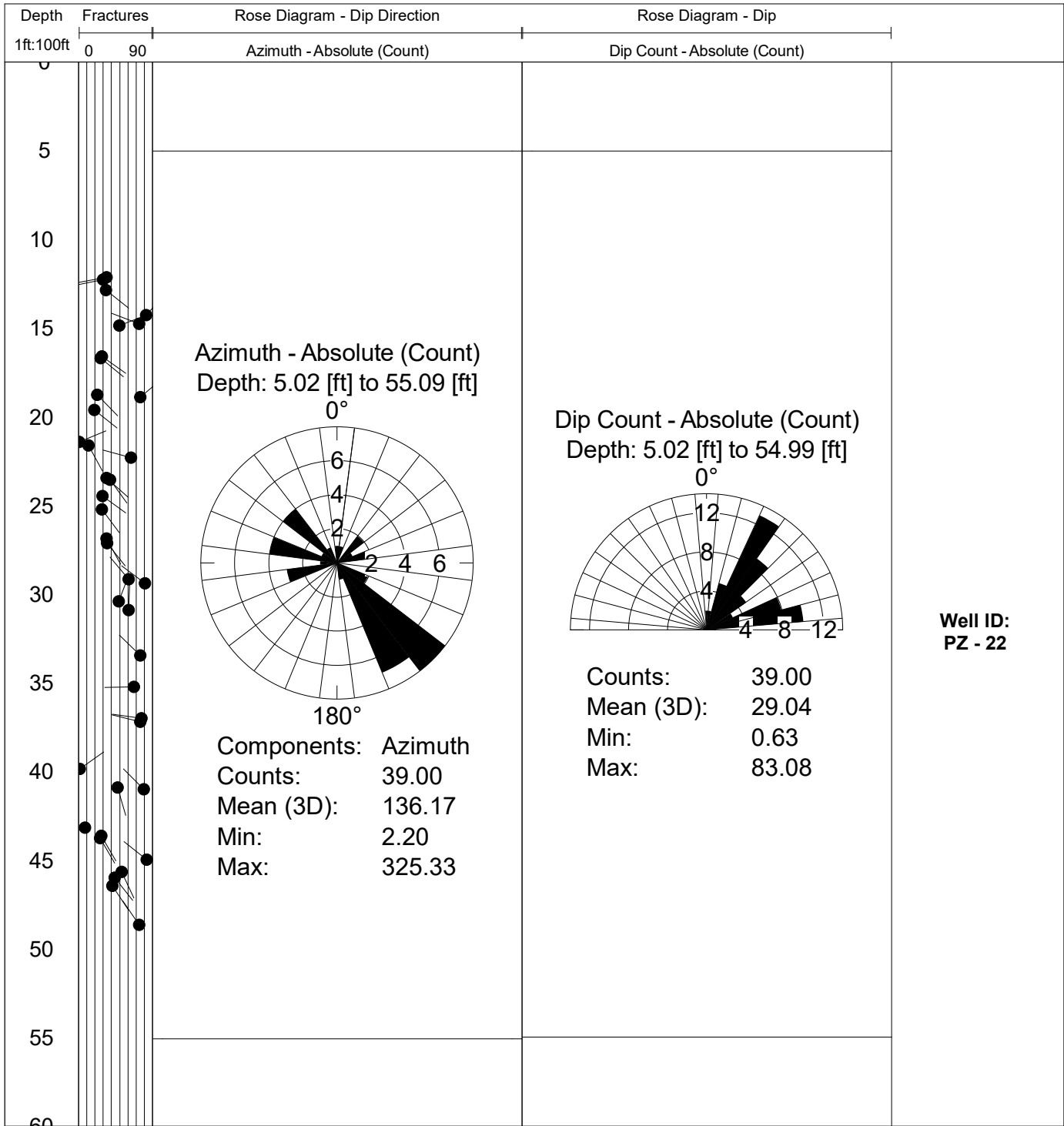


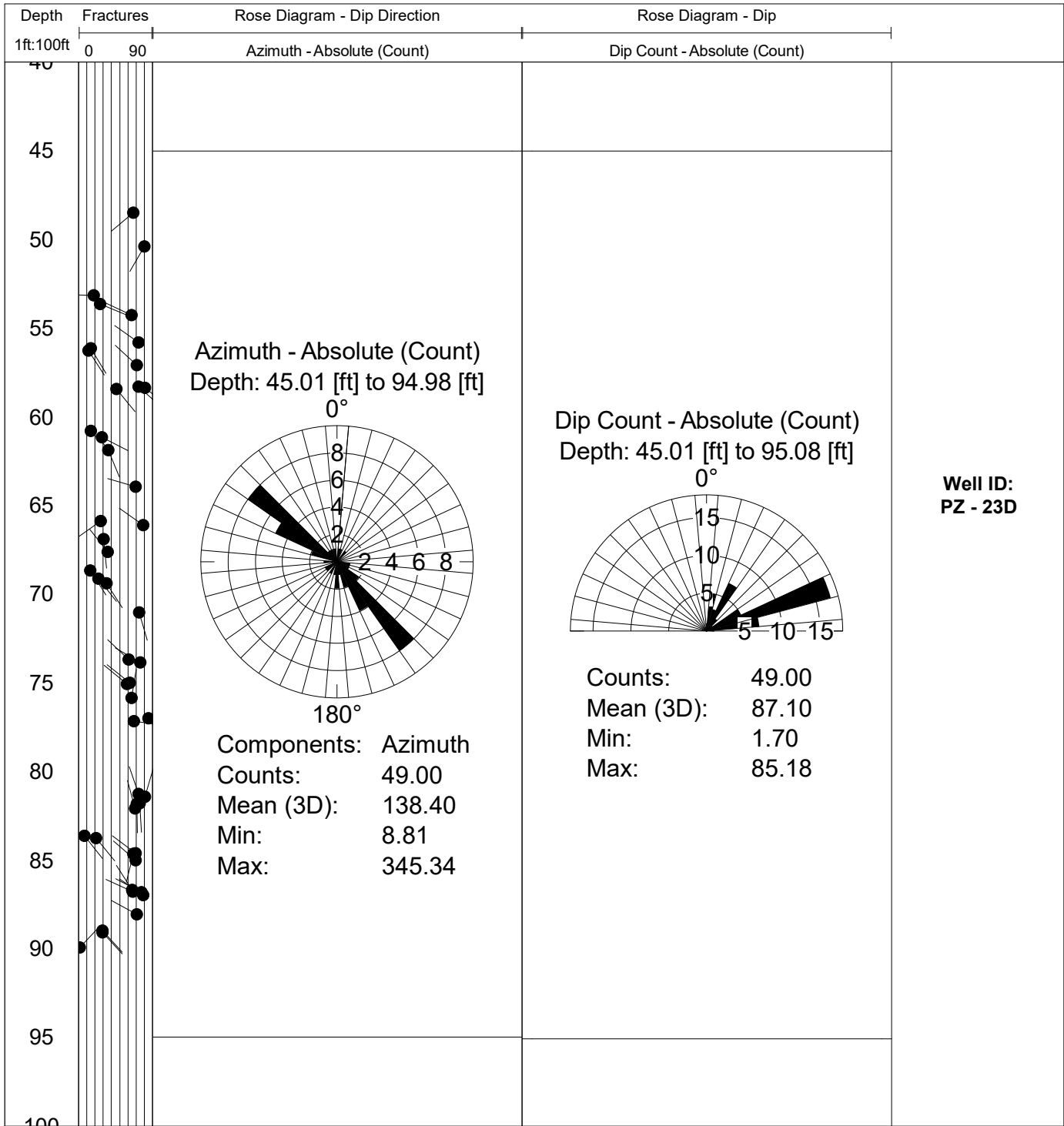




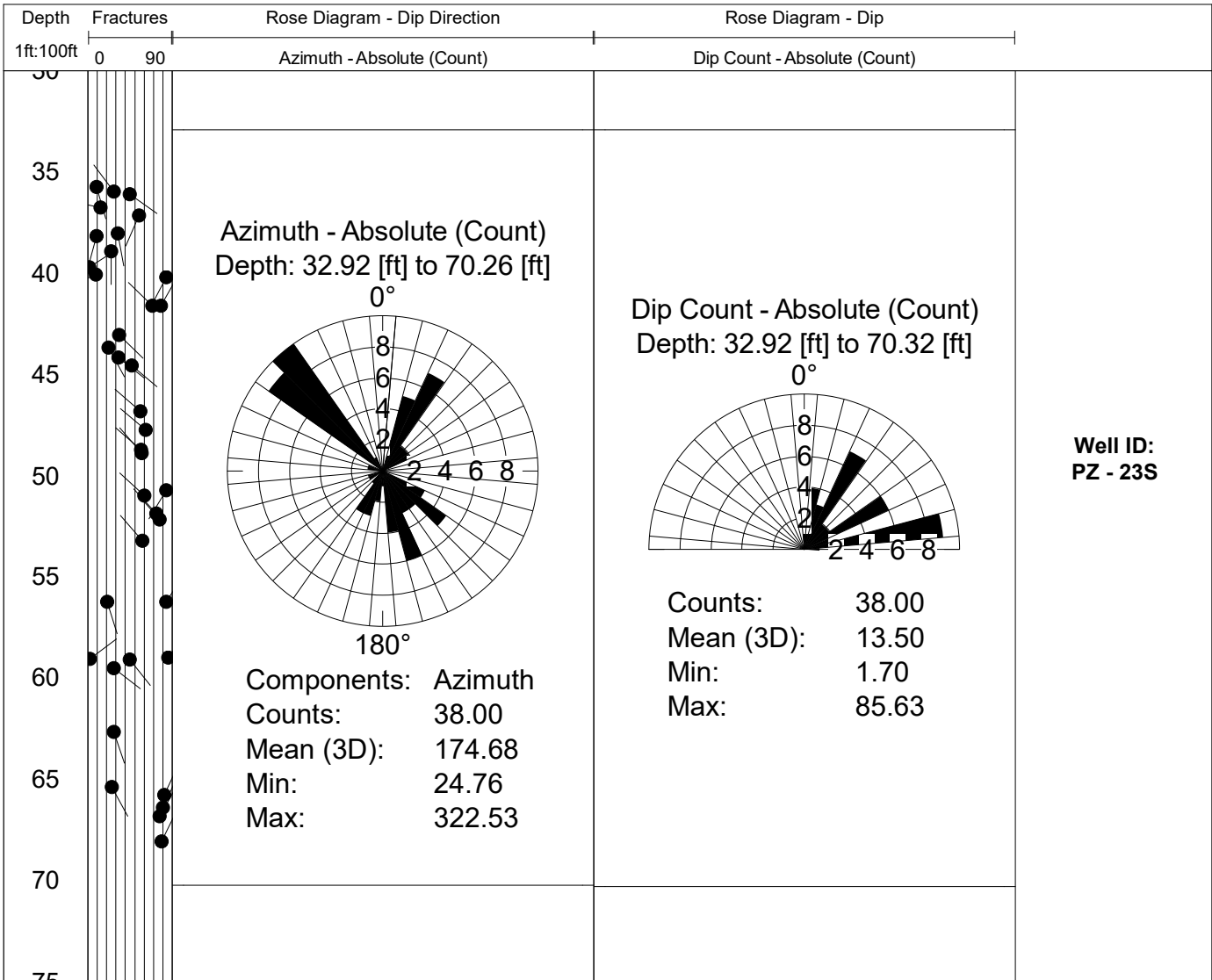




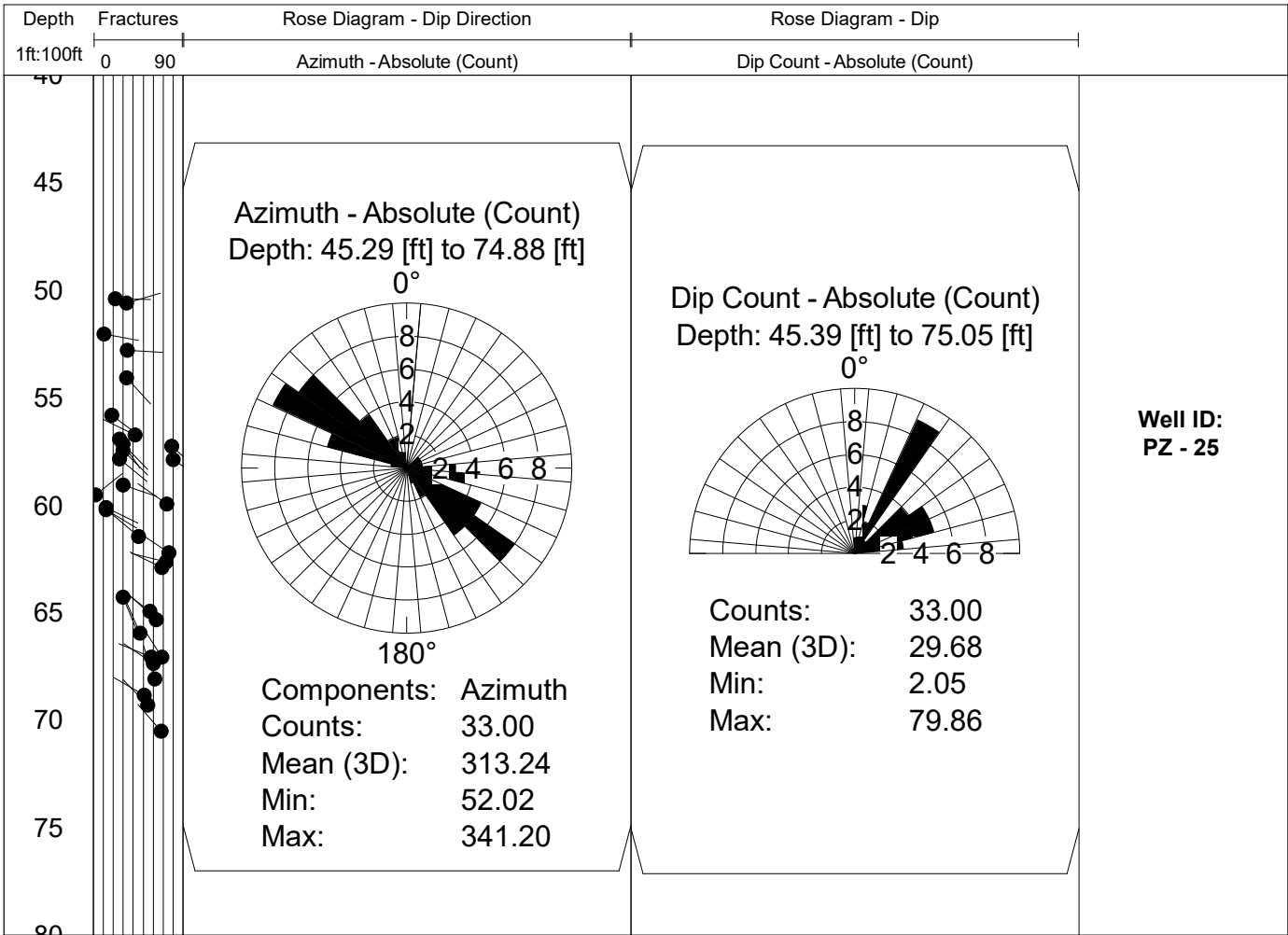


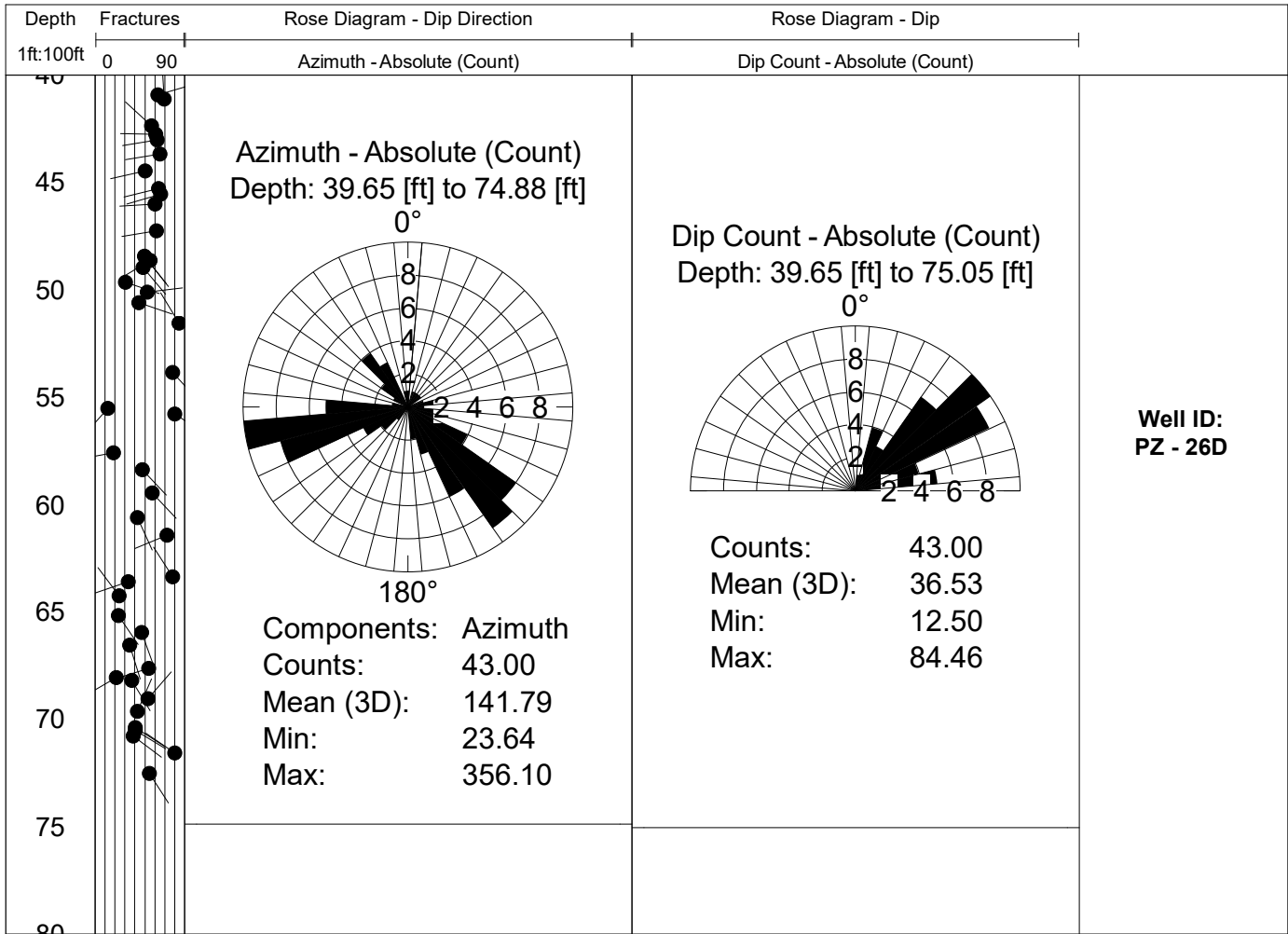


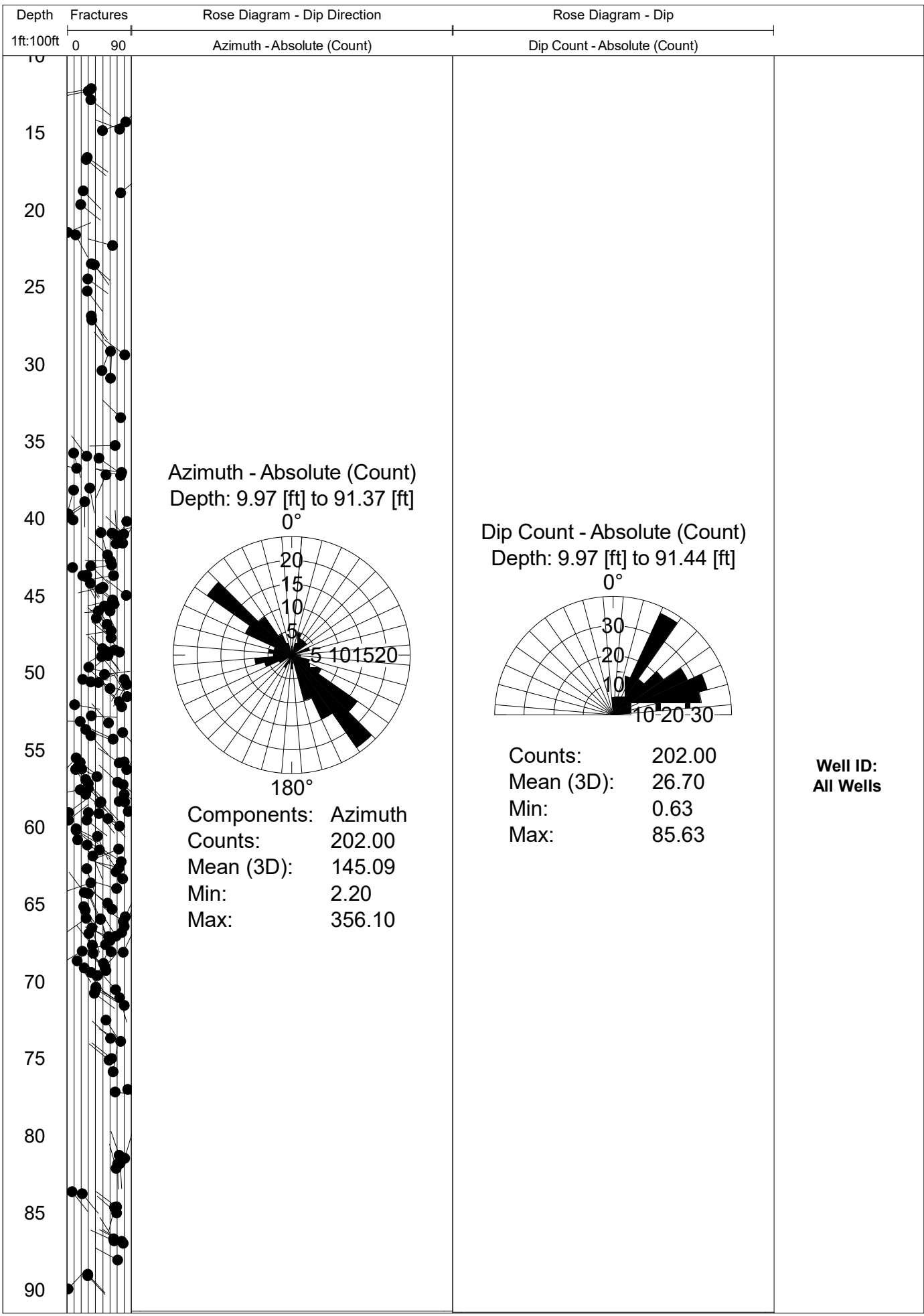
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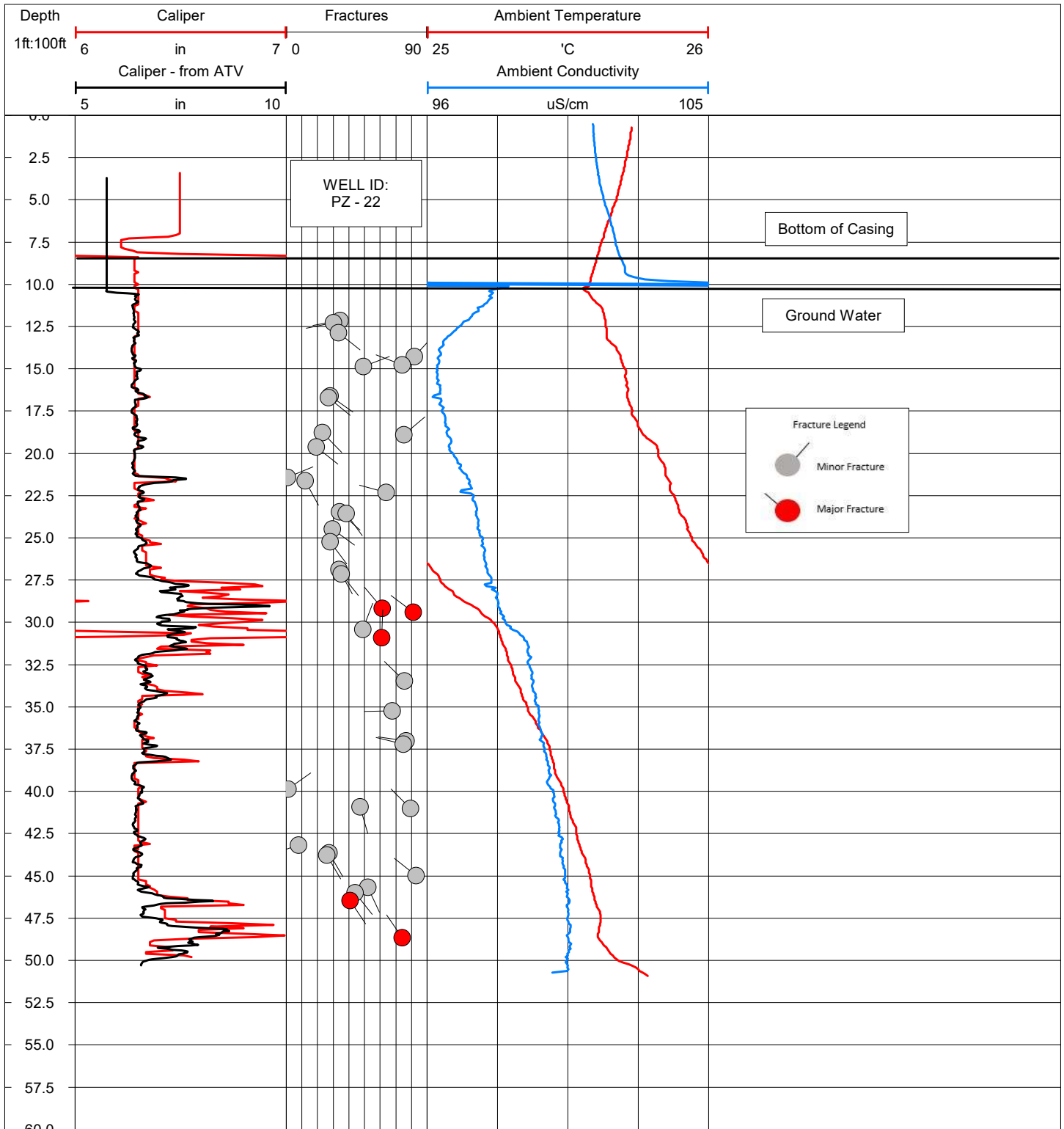
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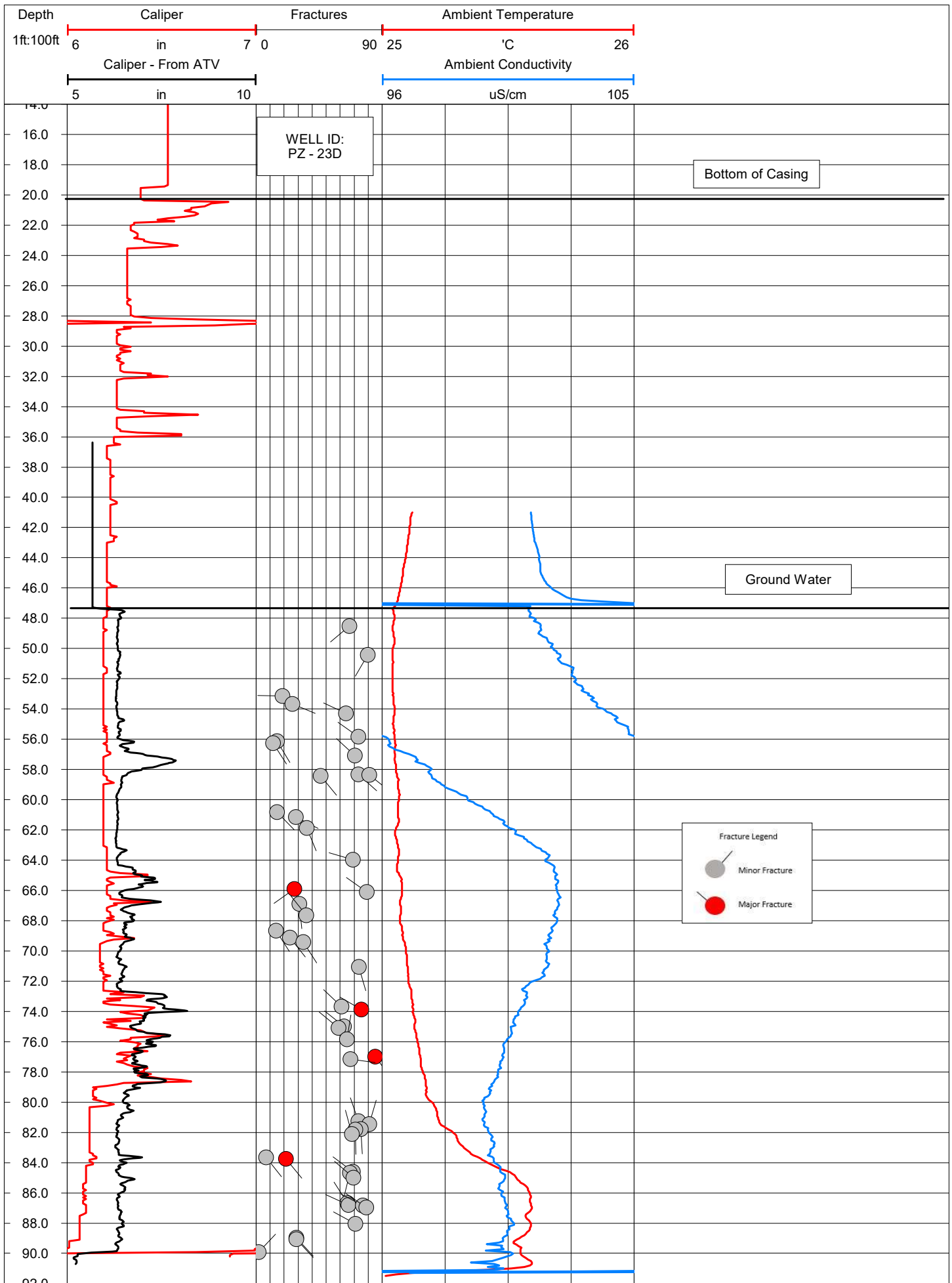


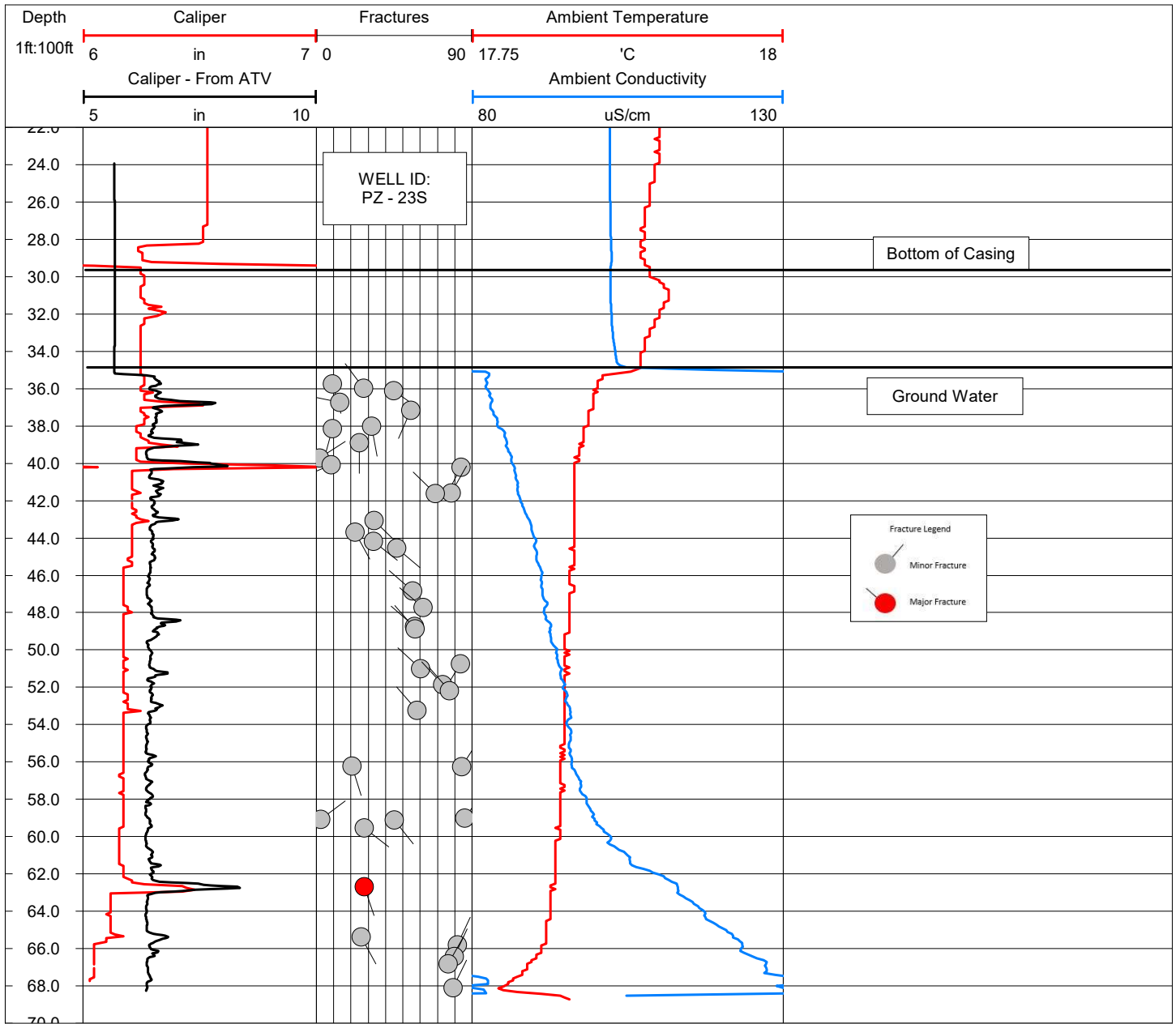


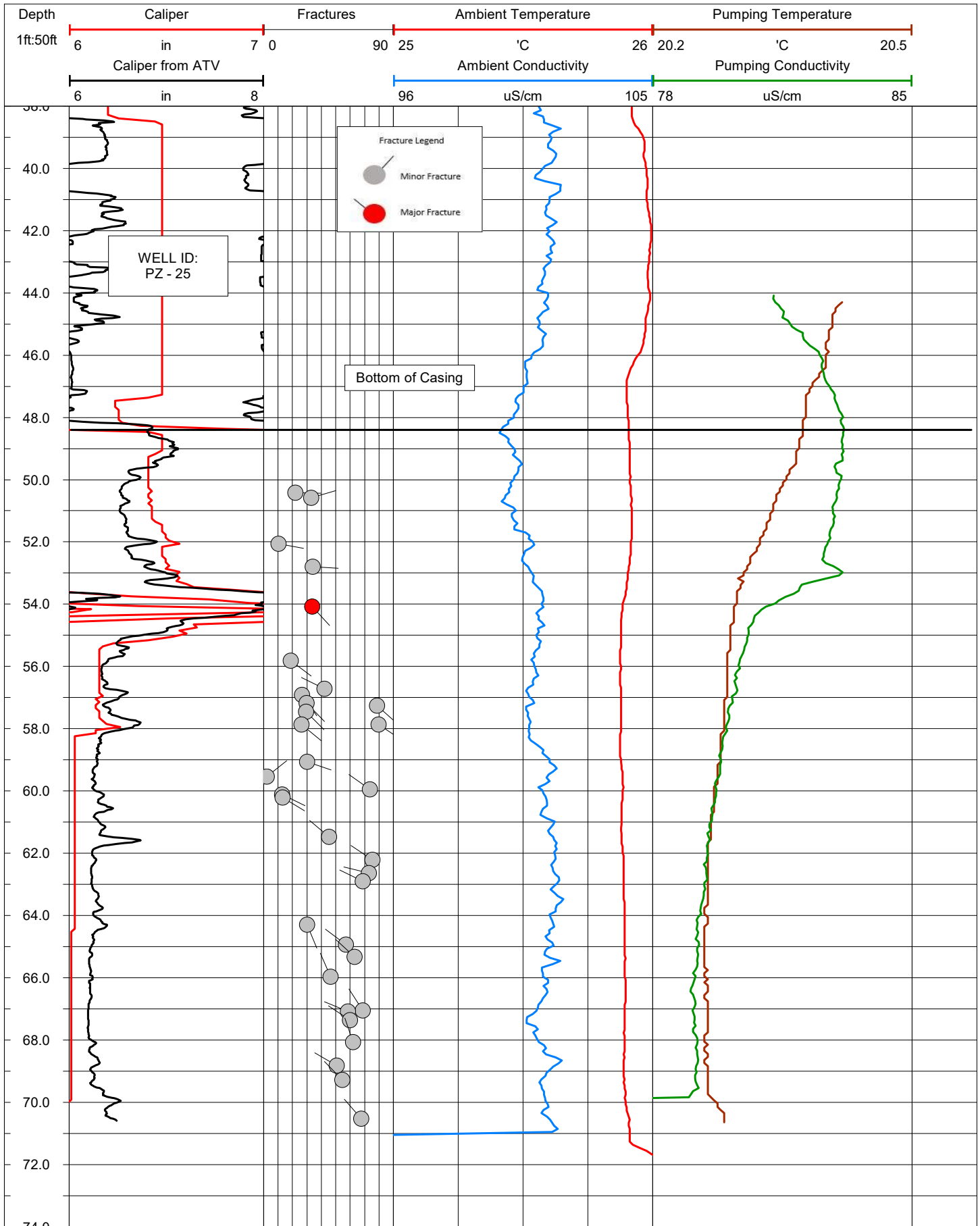


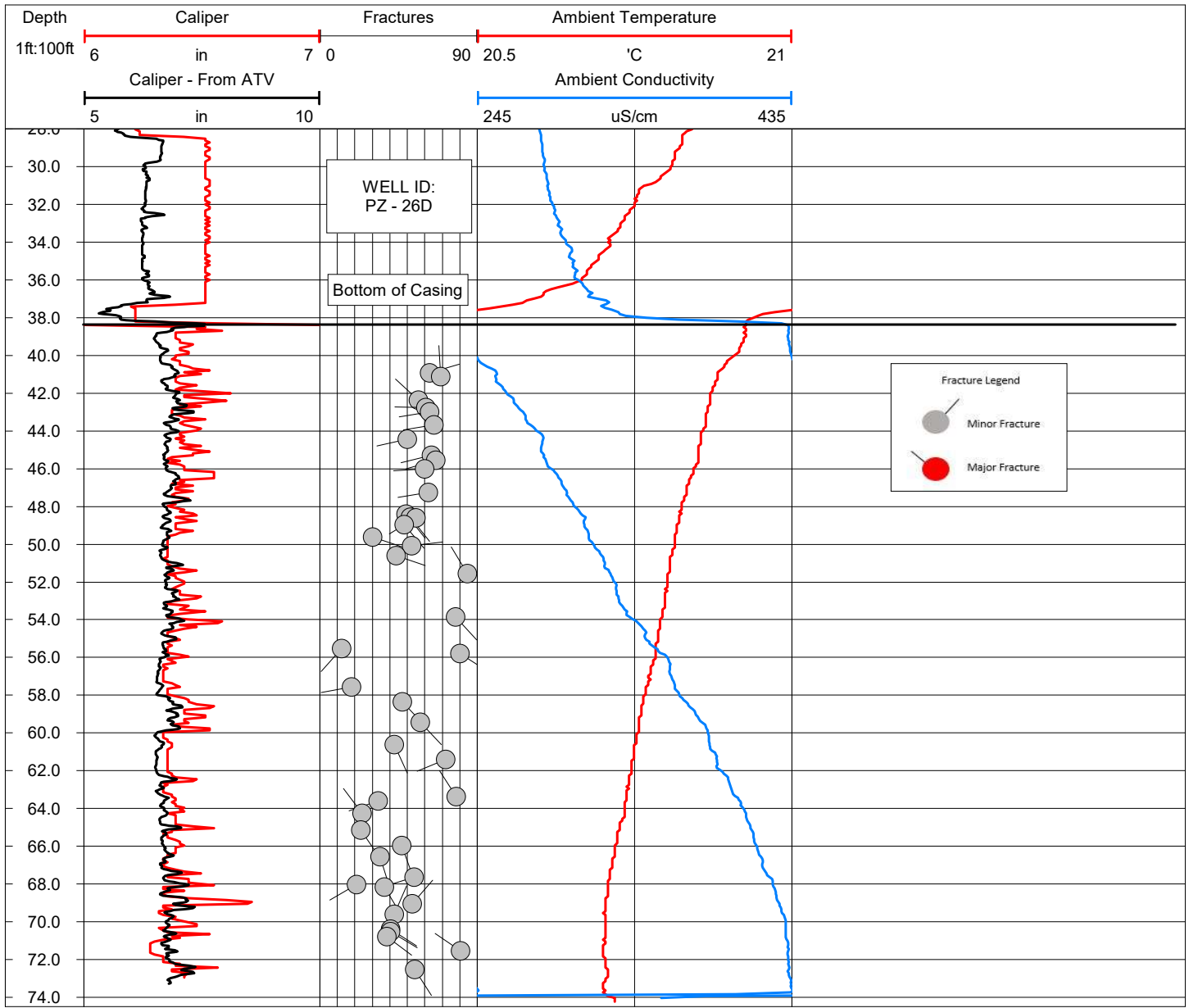
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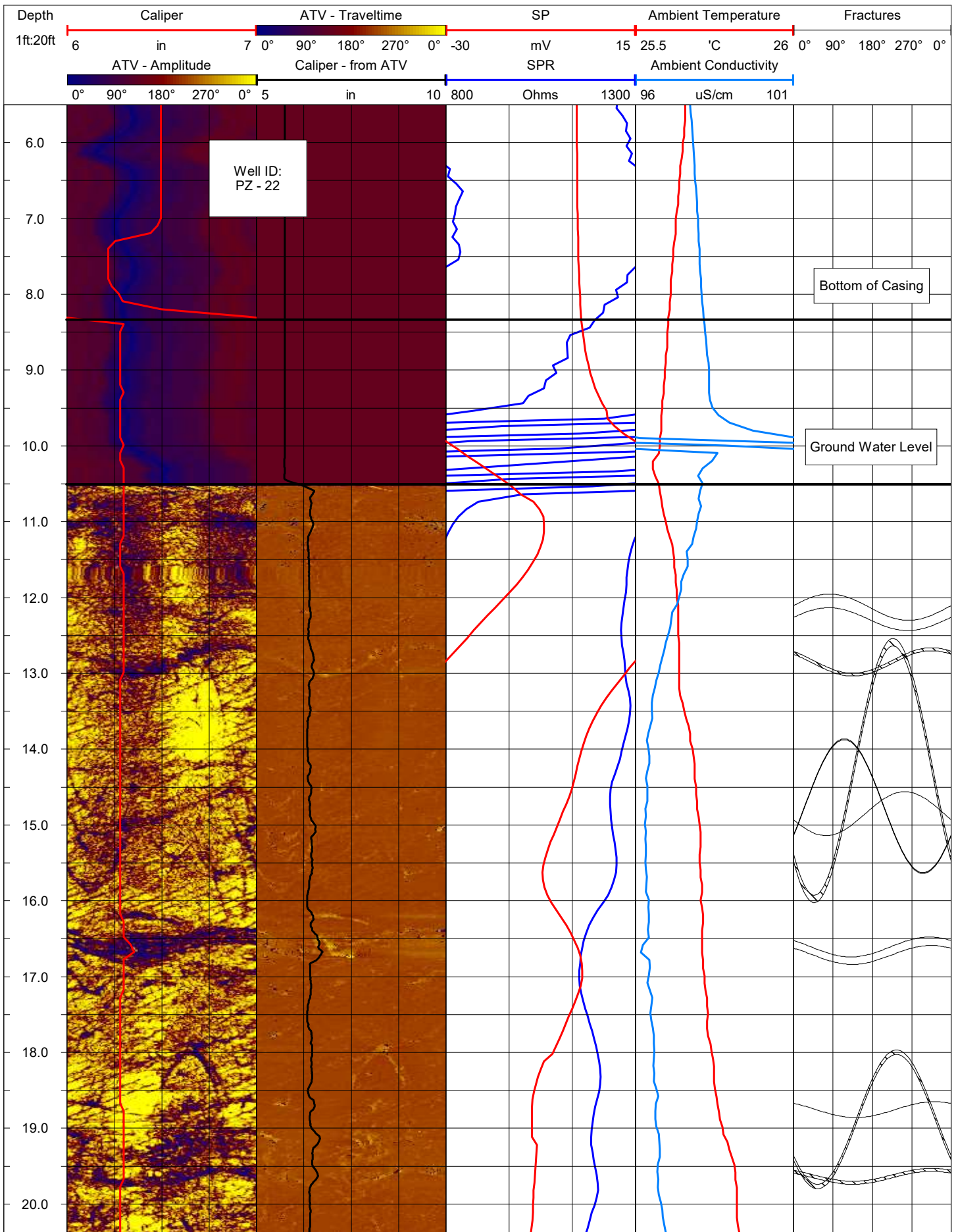


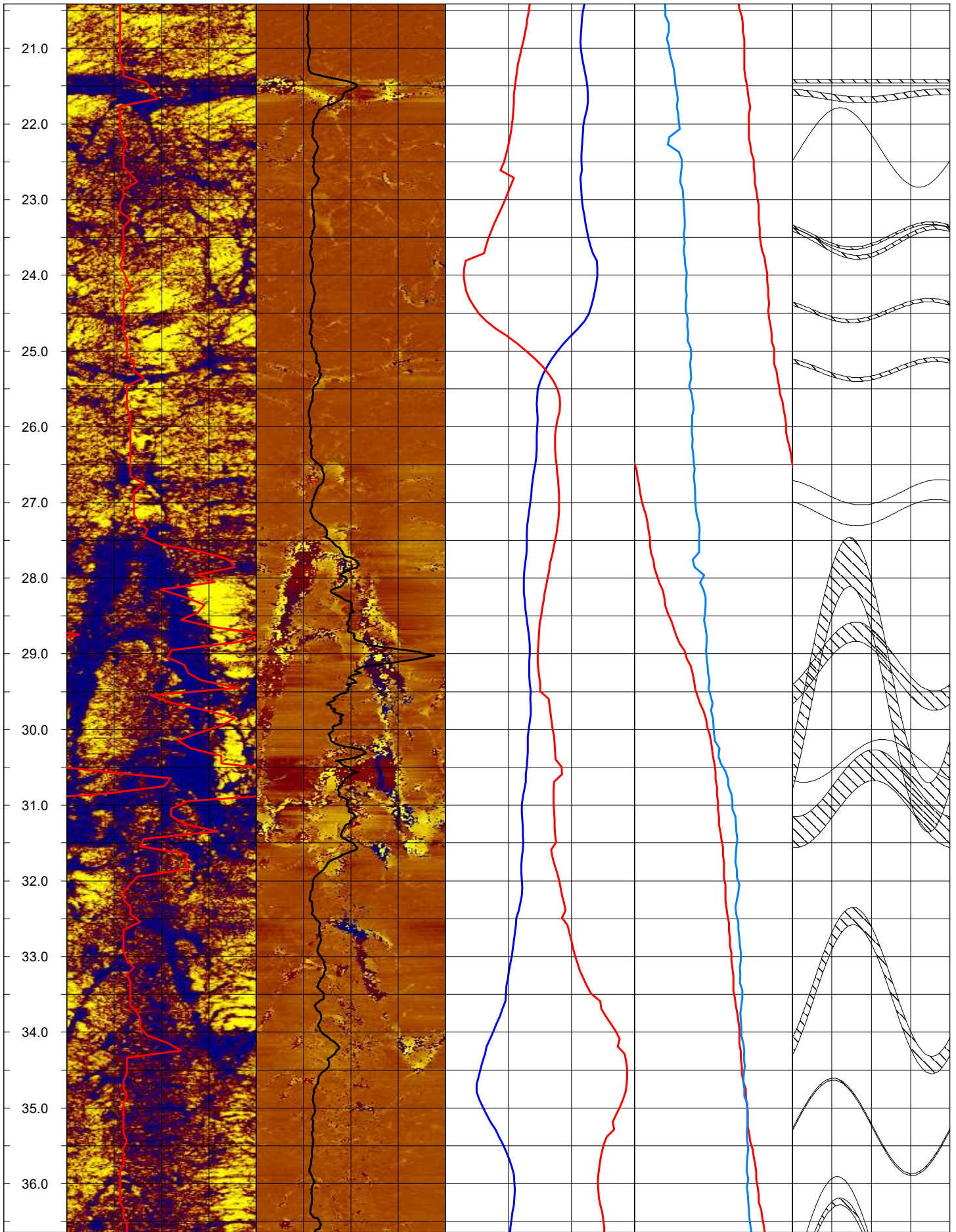


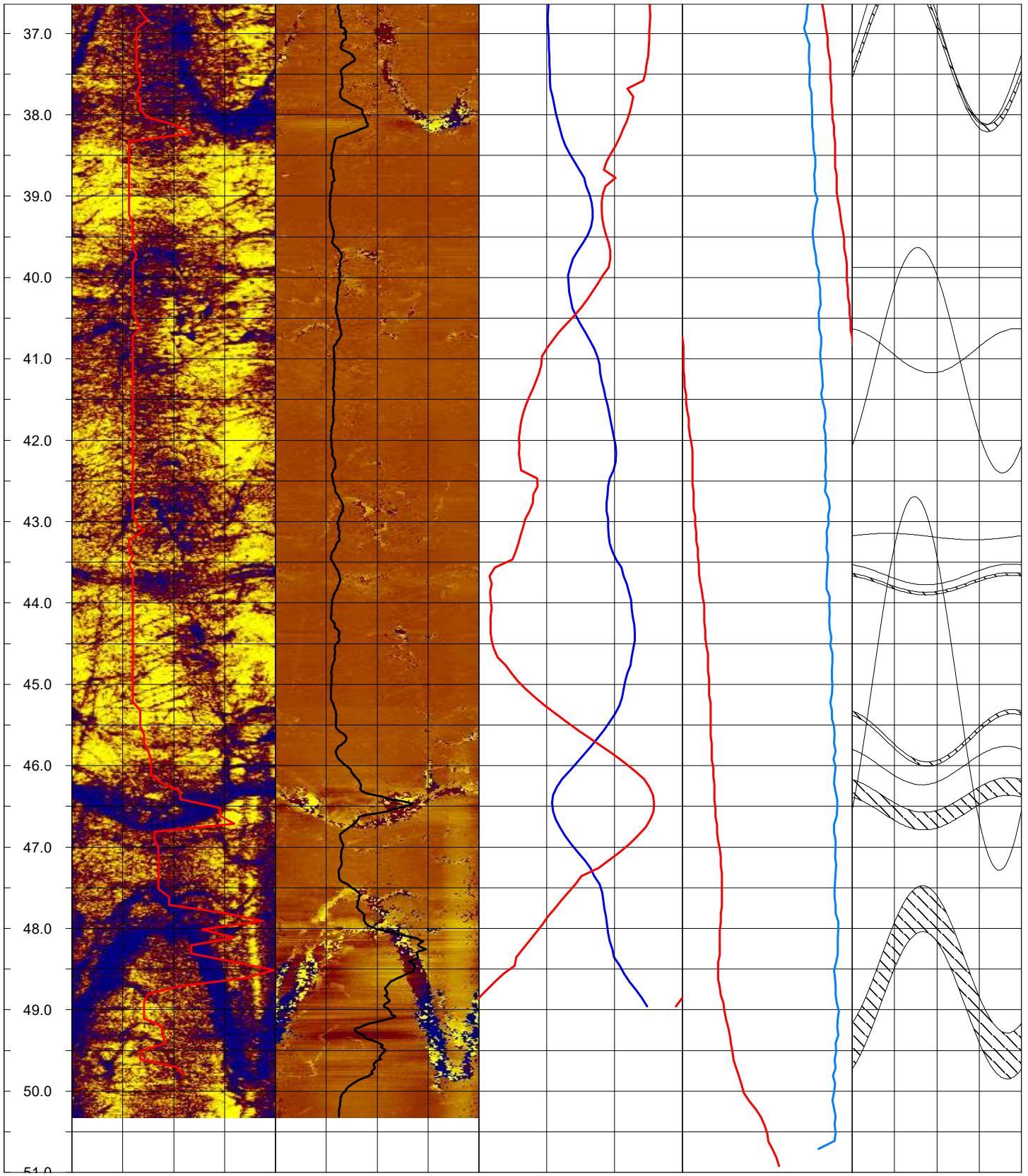


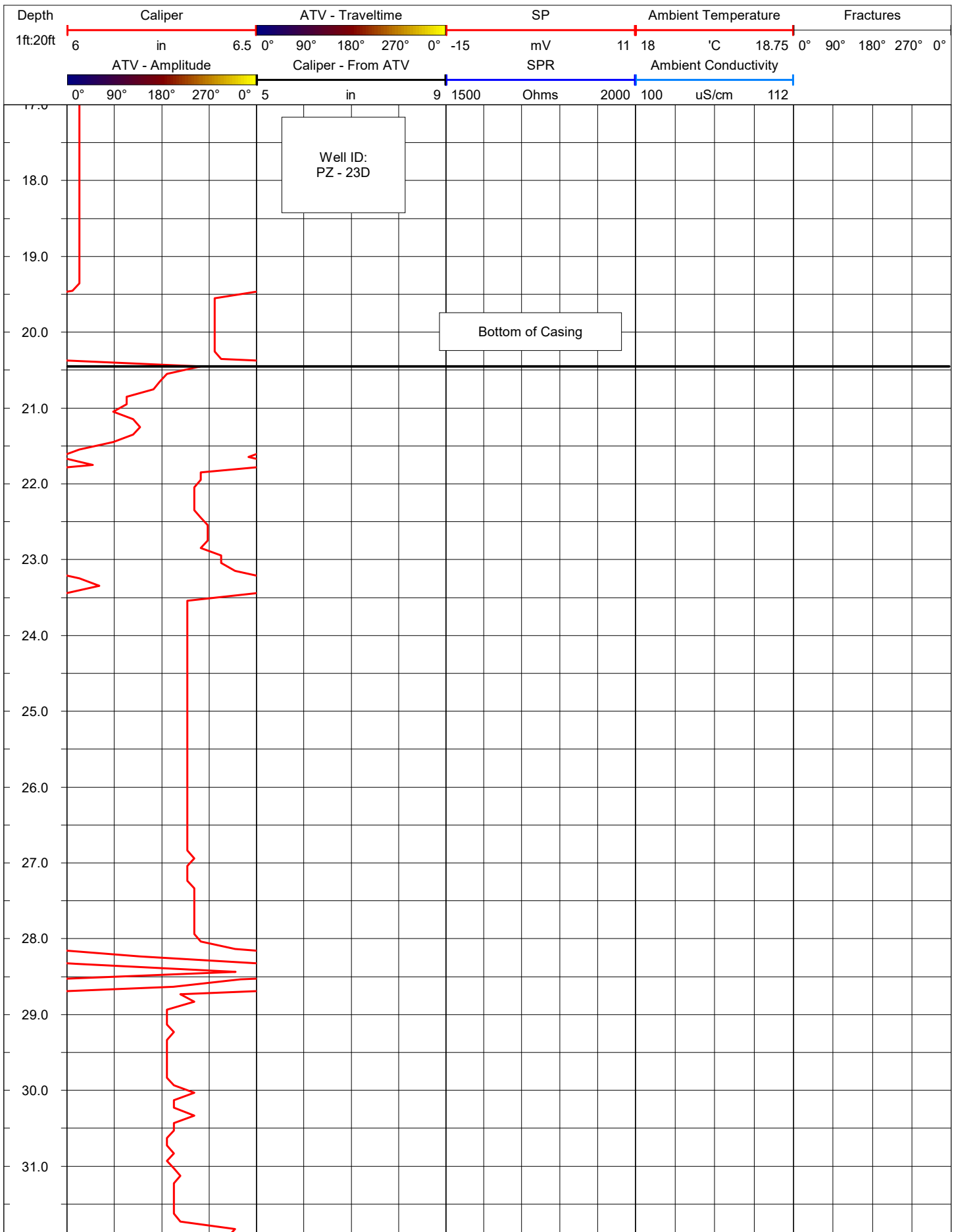


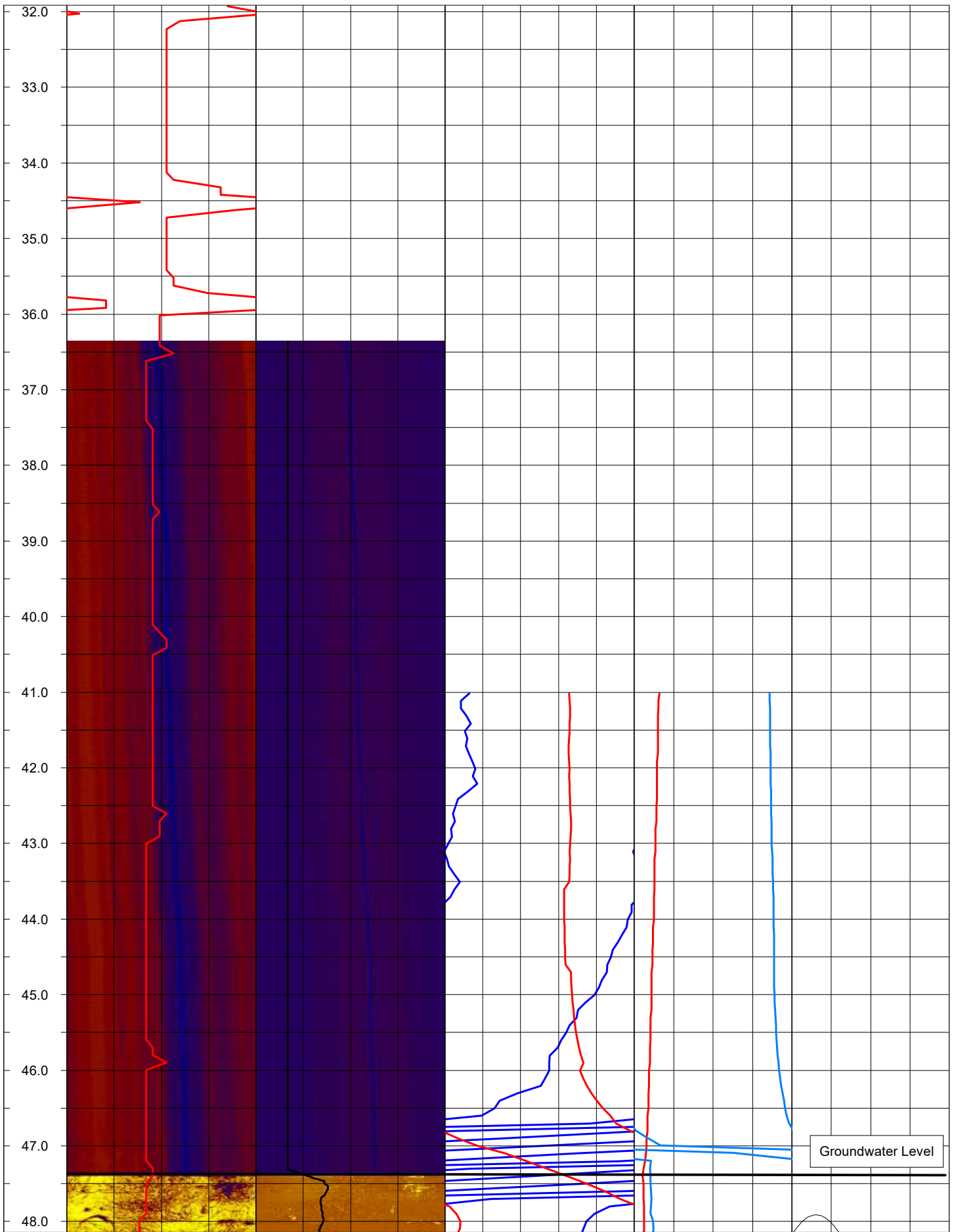
Appendix 4

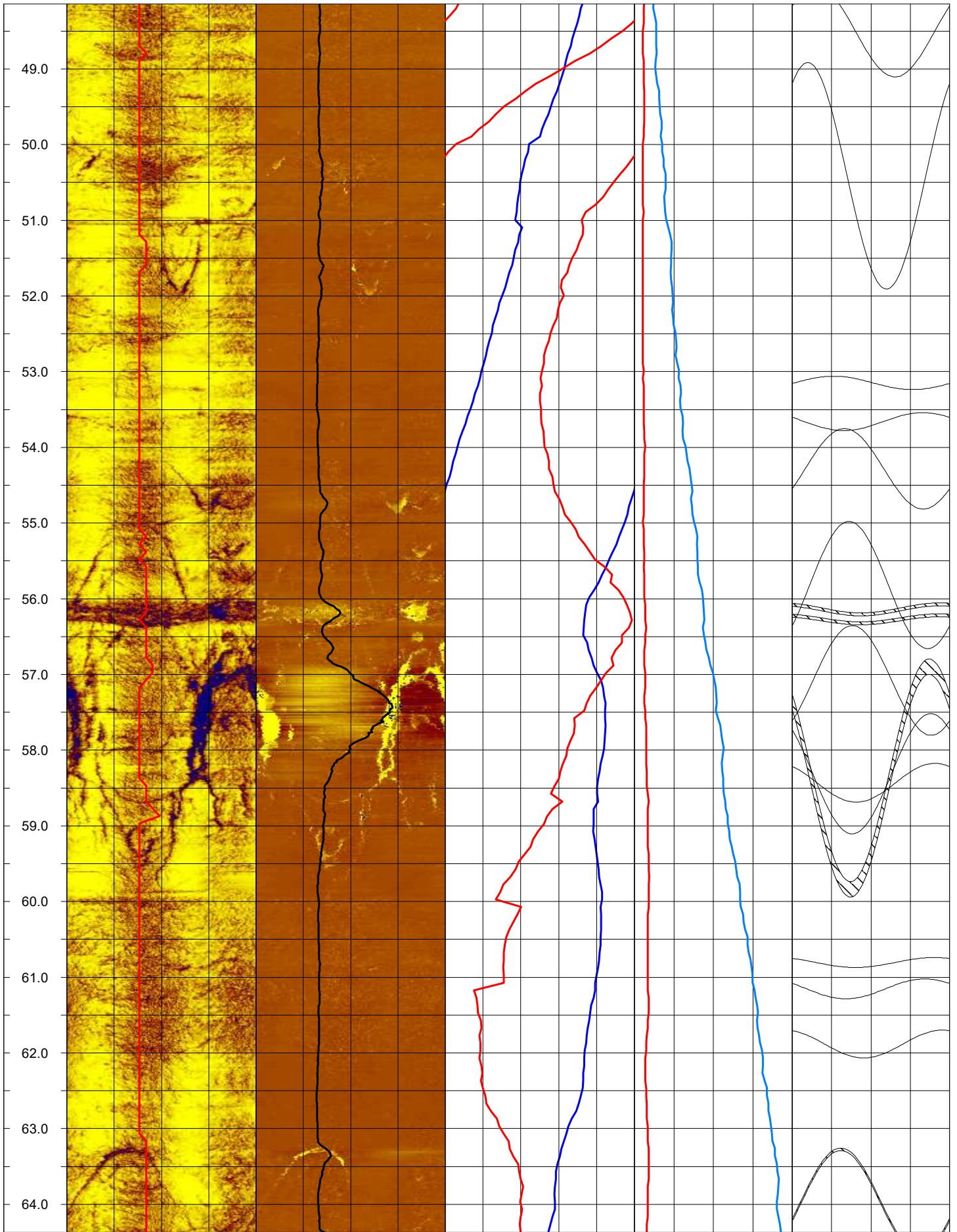


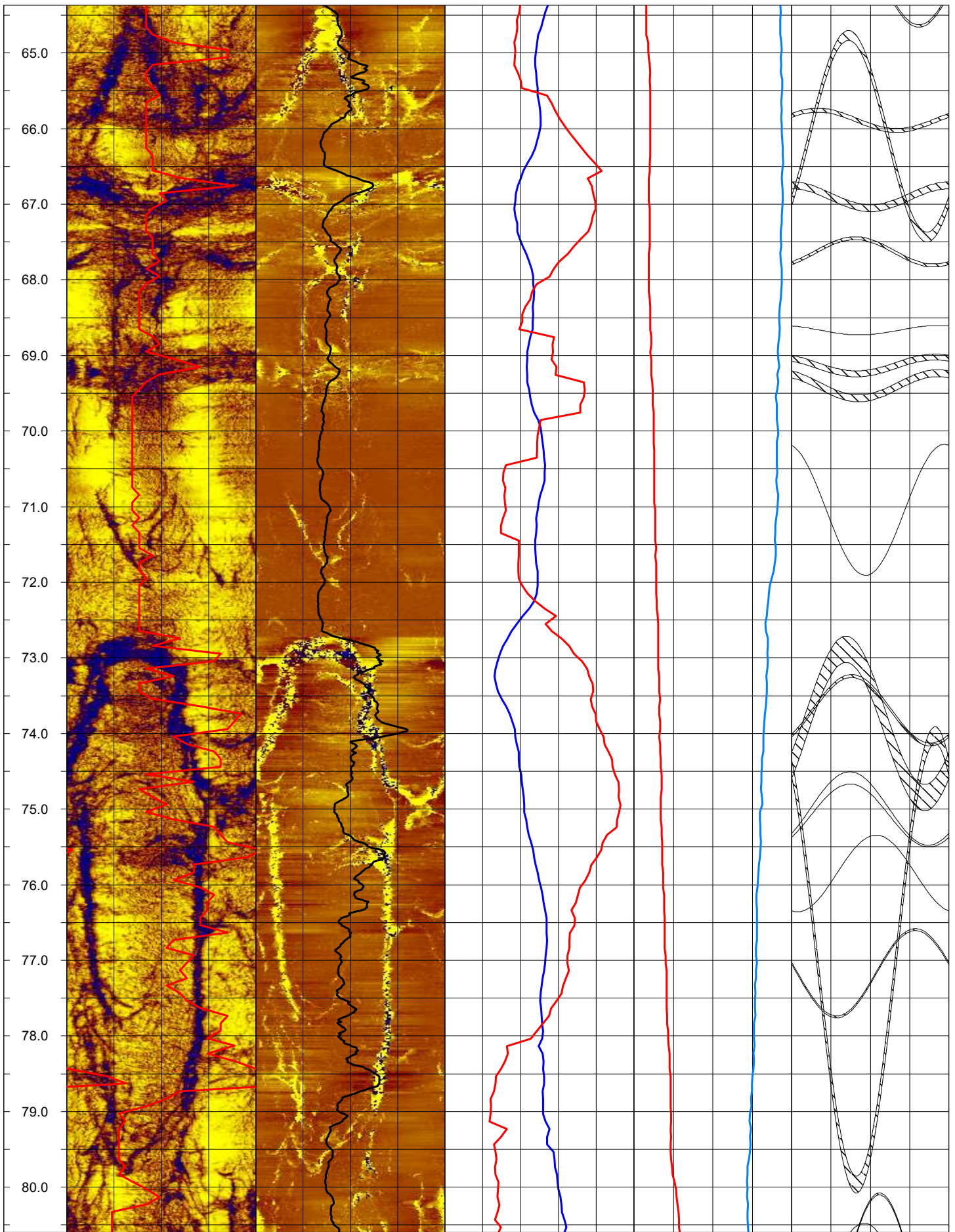


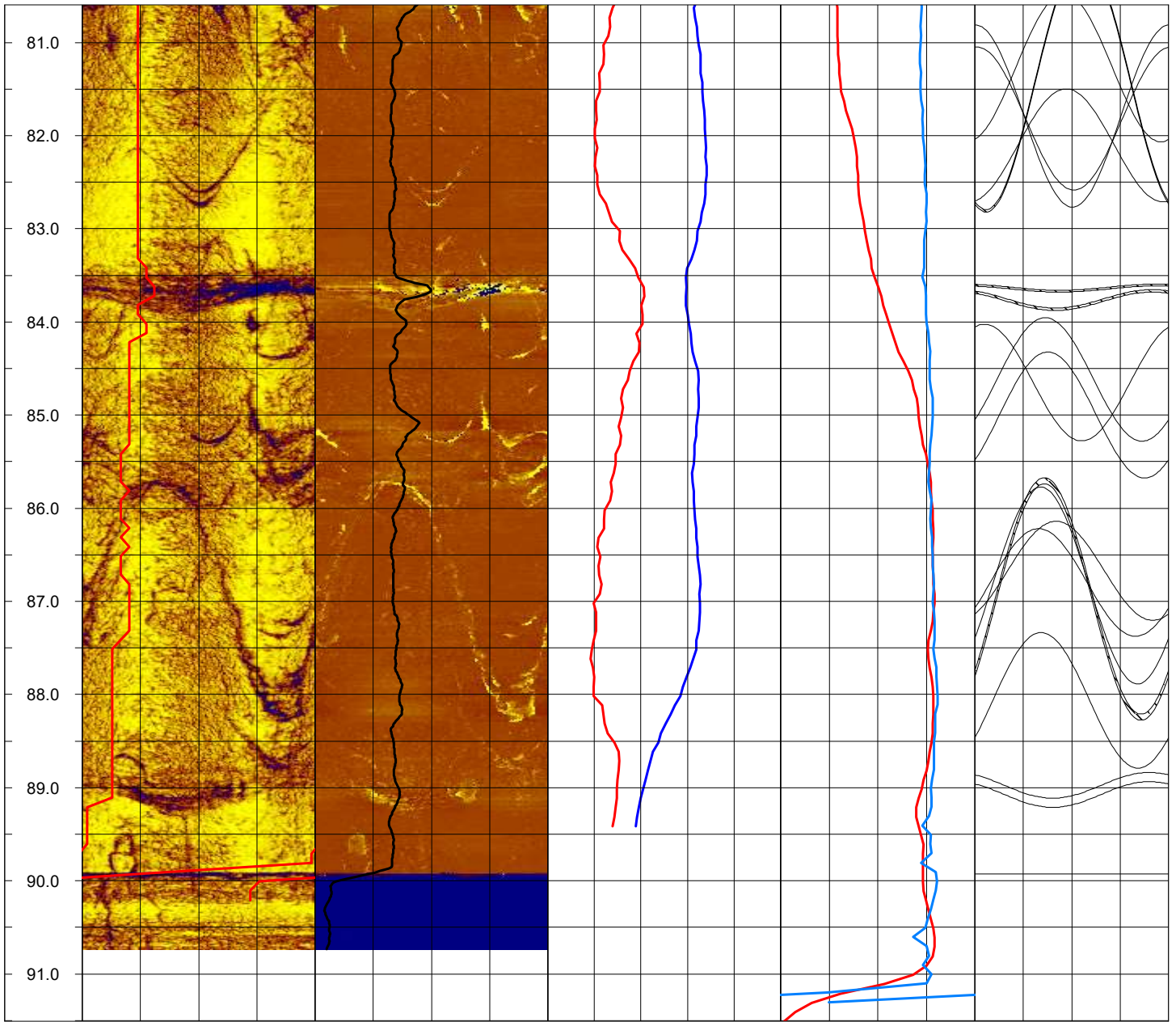


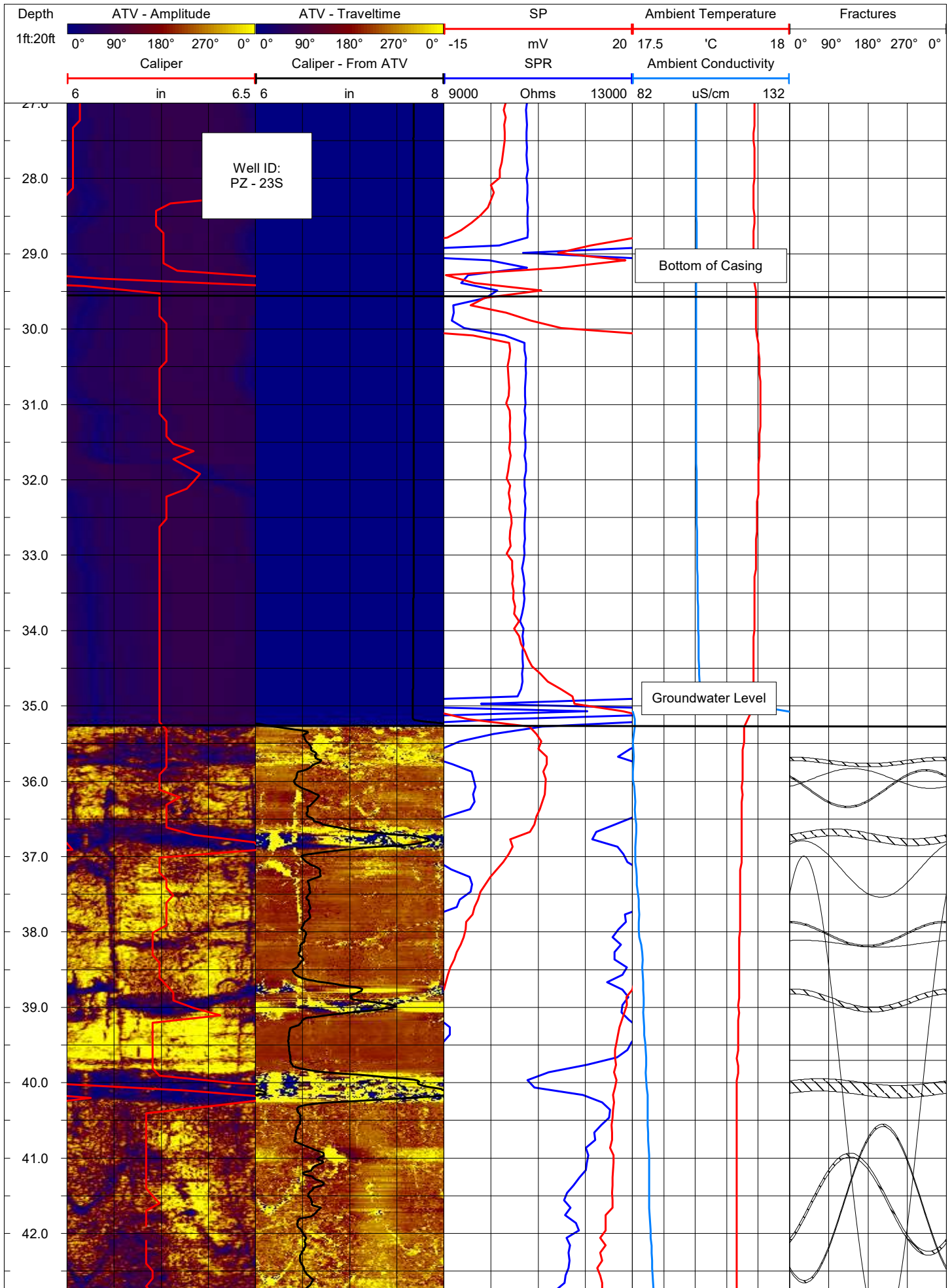


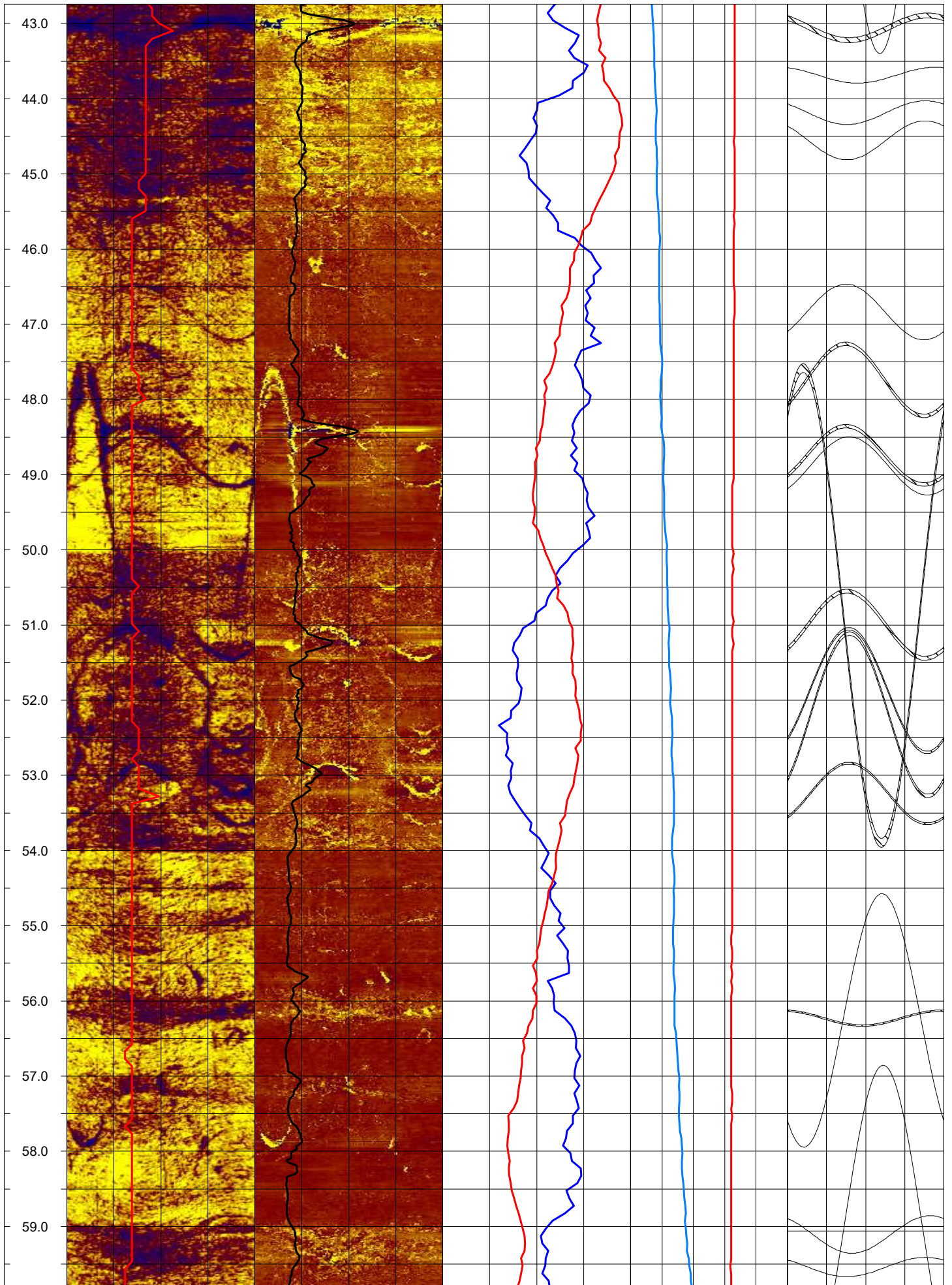


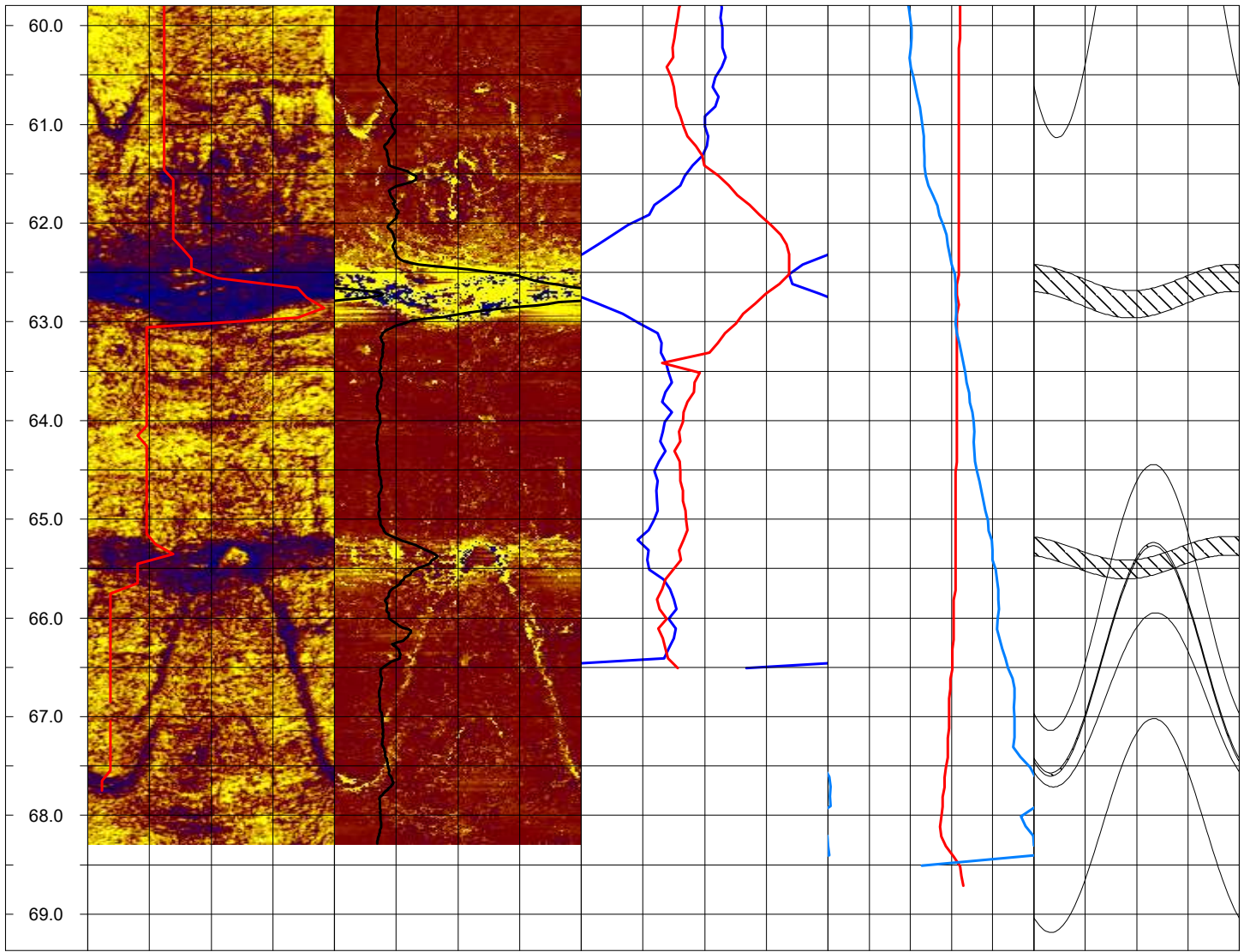


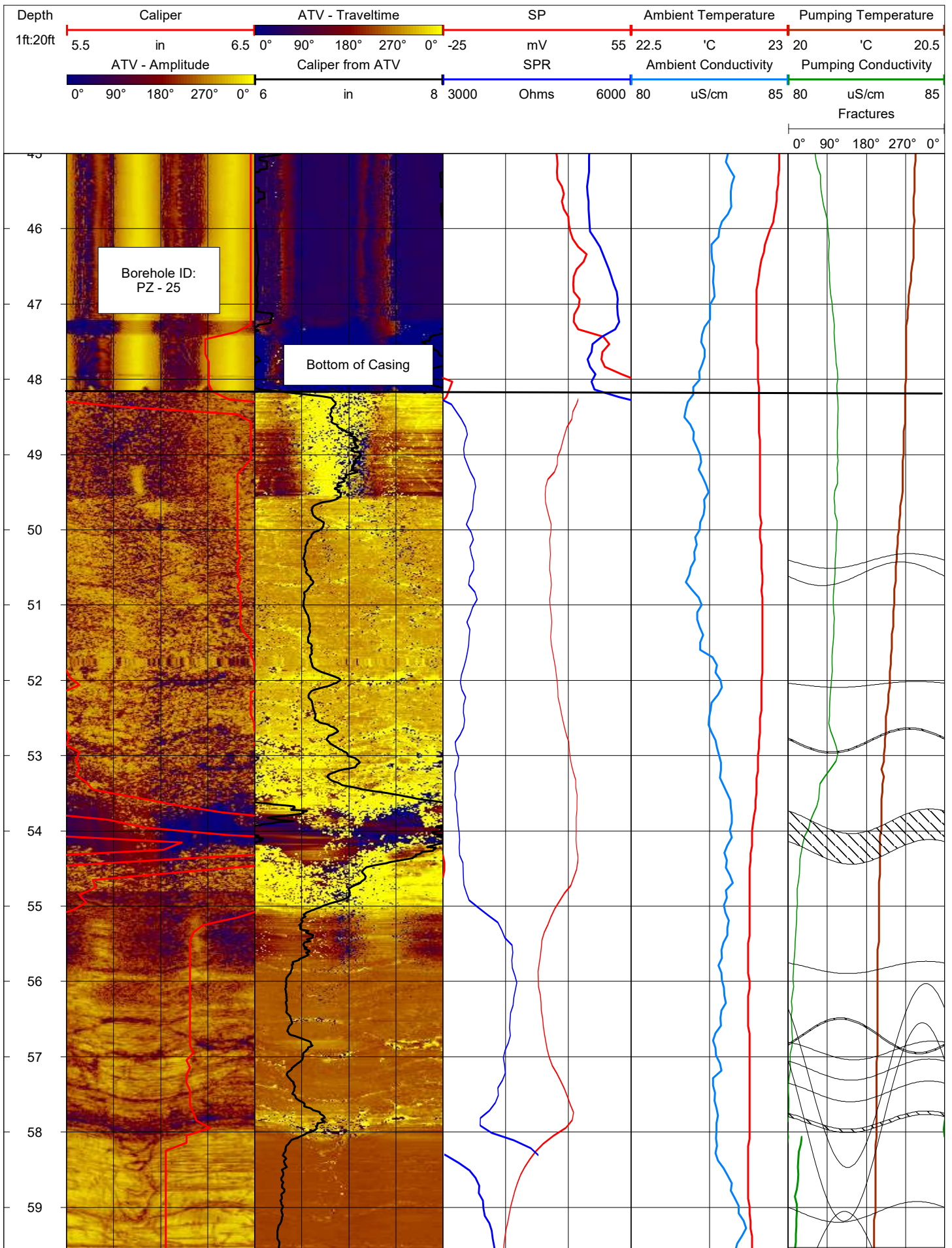


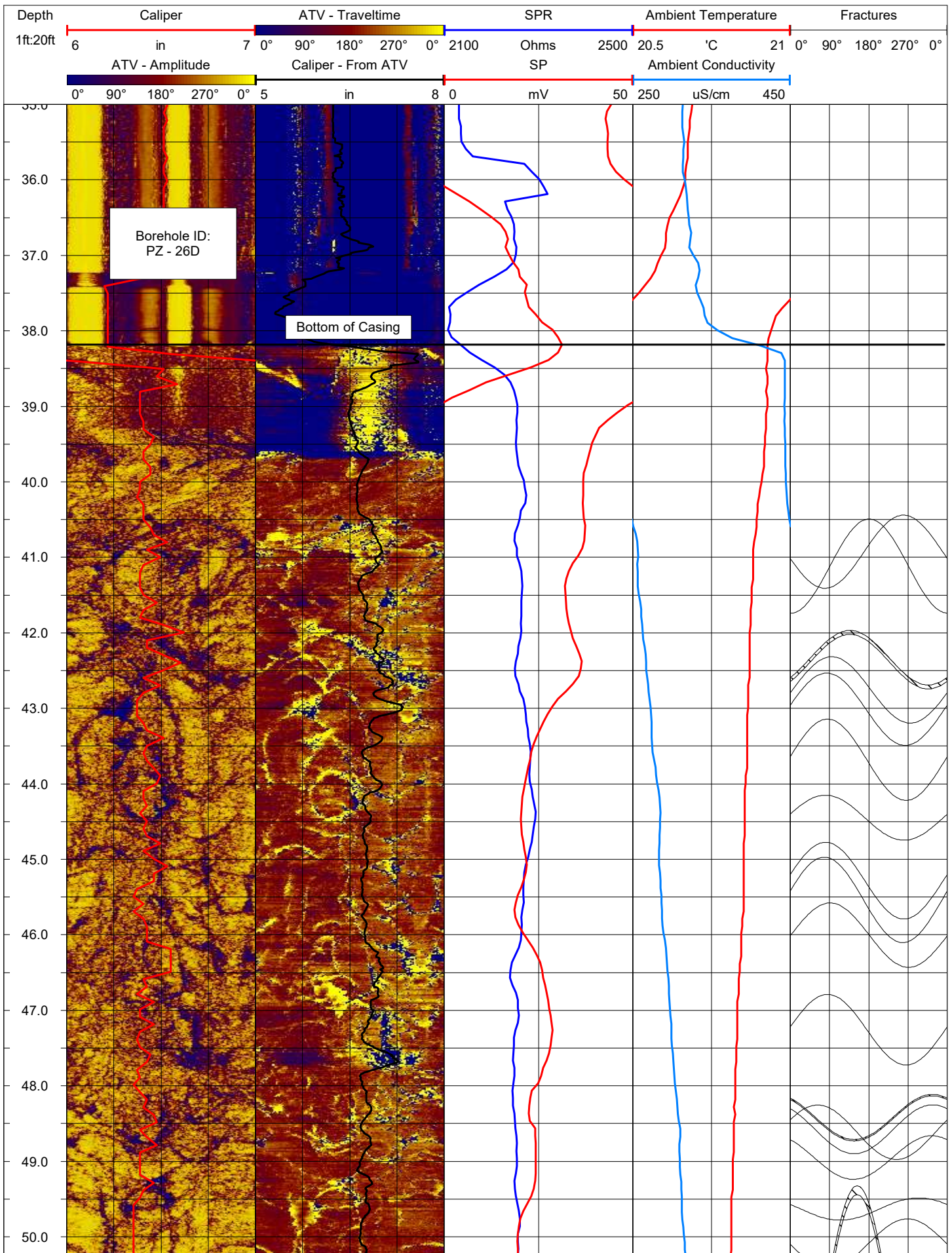


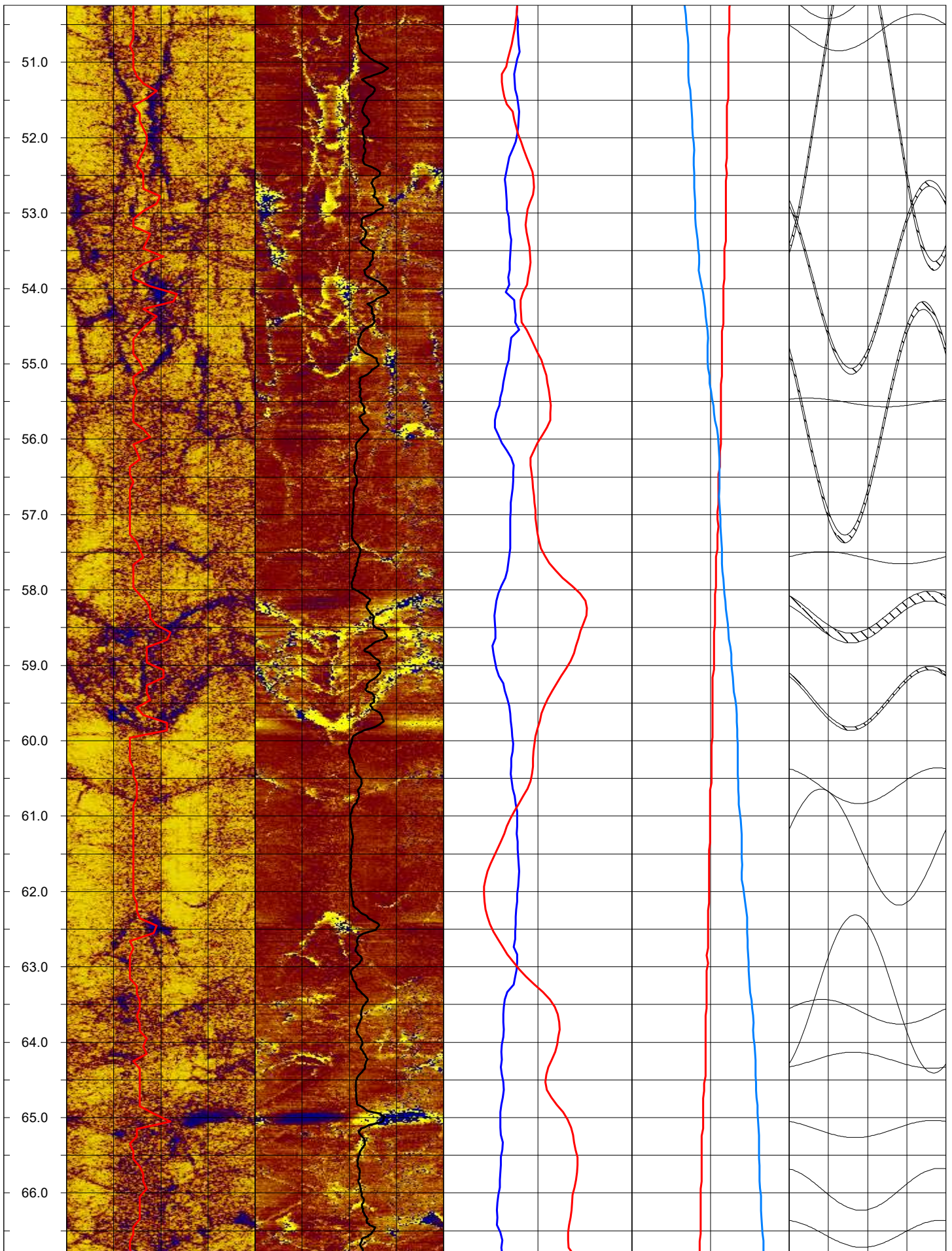


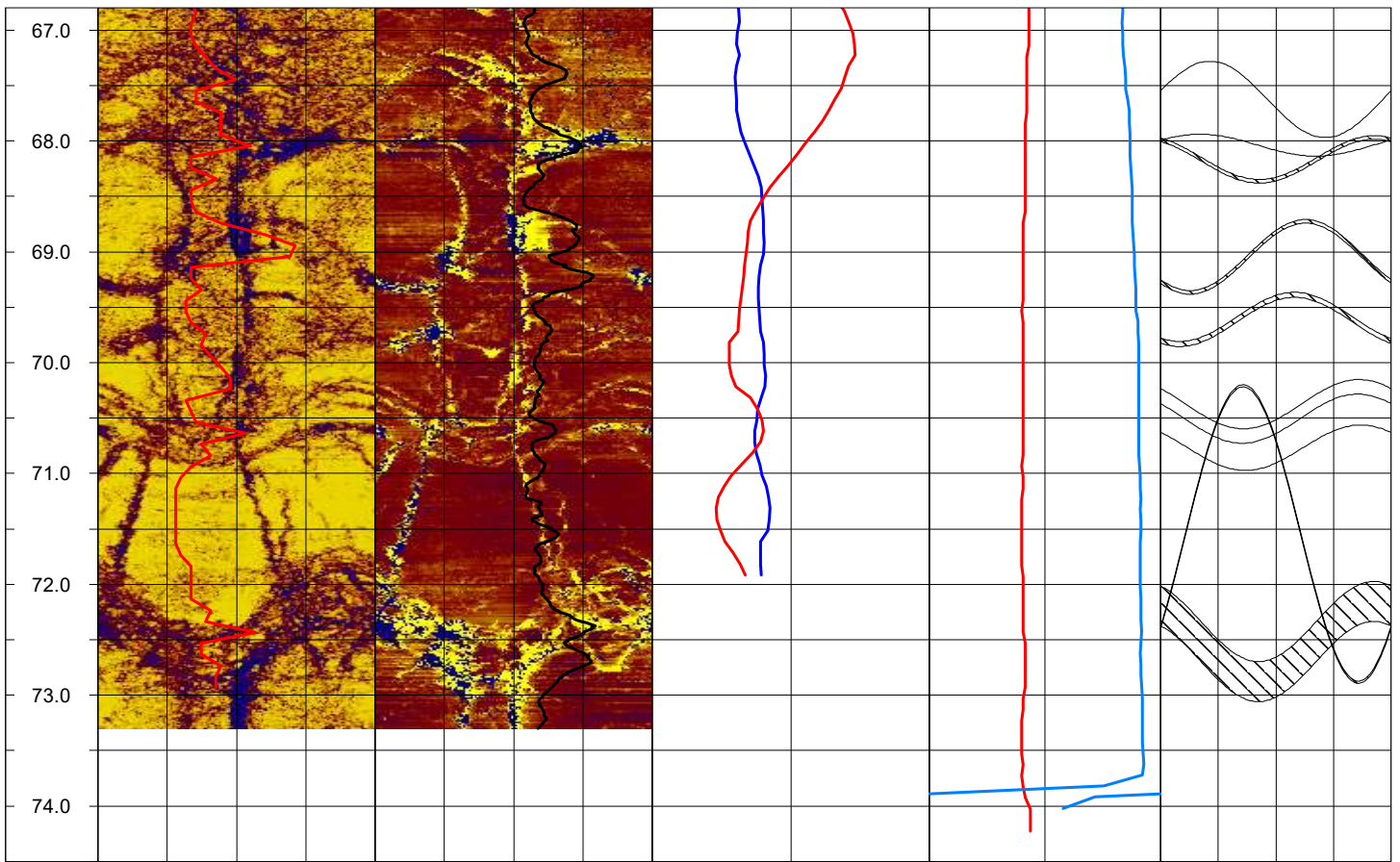












APPENDIX D

Piezometer Development Forms

Atlantic Coast Consulting, Inc. Well Development Field Record

Job Name: WANSLEY AP
 Developed By: O. FUQUEA
 Started Dev. 10-23-20 1020
 Date / Time
 W.L. Before Dev. 26.14' 10-23-20 1015
 BTOC / Date / Time
 Well Depth Before Dev.: 42.85 BTOC
 Water Column (H): 16.71 Ft. Well Dia.: 2 In.
 Screen Length: 10 Ft.

Job No. 1054-110 Well No. PZ-22
 Date of Installation: _____ Sheet 1 of 1
 Completed Dev. 1135 10-26-20
 Date / Time
 W.L. After Dev. 36.24 10/26/20 1142
 BTOC / Date / Time
 Well Depth After Dev.: 42.85 BTOC
 Well Volume: 2.7 Gal.

Date / Time	Volume Removed (Gal.)	Field Parameters				Remarks
		Specific Cond. (umhos/cm)	Temperature (oC)	pH (S.U.)	Turbidity (NTU)	
1177	20	NA				Well purged dry.
1143	24	749.3	22.5	6.25	46	
1218	33.27	760	23.6	6.97	25	
1254	34	692	24.2	6.51	17	
1328	40	717	22.8	6.40	6.3	
1340	45	740	21.8	6.33	4.8	
10-26-20	NA					
1110	46.5	671	20.6	6.33	7.6	
1115	48	672	20.8	6.05	7	
1120	49.5	680	21.1	5.98	6.6	
1125	51	680	21.2	6.00	5.6	
1130	52.5	672	21.2	5.95	5	
1135	54	672	21.1	5.86	2.7	
1135	55.5	672	21.1	5.86	1.5	
1137	NA					Well purged dry

Development Method: Surge + purge
Surge w/ surge blocker + foot valve, pump w/ electric whale development pump until stable + NTU < 5. Q = 1.2 l/min

Notes: H = well depth (BTOC) - W.L. (BTOC)
 Well volume in pipe:
 2" diameter well: 0.16 X H = volume in gallons
 4" diameter well: 0.66 X H = volume in gallons

Low-Flow Test Report:

Total of 111 gallons purged between
10/22/2020 and 10/26/2020

Test Date / Time: 10/26/2020 11:00:13 AM
Project: Plant Wansley - Ash Pond Developments
Operator Name: Jordan Berisford

Location Name: PZ-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.85 ft Total Depth: 42.85 ft Initial Depth to Water: 25.81 ft	Pump Type: Whale Pump Tubing Type: Poly Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 42 liter Flow Cell Volume: 90 ml Final Flow Rate: 1200 ml/min Final Draw Down: 110.28 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
10/26/2020 11:00 AM	00:00	6.95 pH	24.05 °C	1.48 µS/cm	8.33 mg/L		92.8 mV	31.20 ft	1,200.0 ml/min
10/26/2020 11:05 AM	05:00	6.33 pH	20.65 °C	670.51 µS/cm	7.16 mg/L	7.55 NTU	96.0 mV	33.20 ft	1,200.0 ml/min
10/26/2020 11:10 AM	10:00	6.05 pH	20.82 °C	672.54 µS/cm	6.83 mg/L	7.02 NTU	98.8 mV	34.20 ft	1,200.0 ml/min
10/26/2020 11:15 AM	15:00	5.98 pH	21.12 °C	680.49 µS/cm	6.43 mg/L	6.57 NTU	99.6 mV	34.50 ft	1,200.0 ml/min
10/26/2020 11:20 AM	20:00	6.00 pH	21.29 °C	680.28 µS/cm	6.56 mg/L	5.55 NTU	99.9 mV	34.70 ft	1,200.0 ml/min
10/26/2020 11:25 AM	25:00	5.95 pH	21.15 °C	672.42 µS/cm	6.44 mg/L	4.98 NTU	100.4 mV	34.90 ft	1,200.0 ml/min
10/26/2020 11:30 AM	30:00	5.88 pH	21.12 °C	672.15 µS/cm	6.21 mg/L	2.74 NTU	101.3 mV	35.00 ft	1,200.0 ml/min
10/26/2020 11:35 AM	35:00	5.86 pH	21.12 °C	672.09 µS/cm	6.16 mg/L	1.52 NTU	101.6 mV	35.00 ft	1,200.0 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Total of 15 gallons purged between
10/28/2020 and 11/3/2020

Test Date / Time: 11/3/2020 2:14:02 PM

Project: Plant Wansley Ash Pond

Operator Name: O. Fuquea

Location Name: PZ-23S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.73 ft Total Depth: 71.73 ft Initial Depth to Water: 56.4 ft	Pump Type: Ladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 0.5 gal Flow Cell Volume: 90 ml Final Flow Rate: 0.02 gal/min Final Draw Down: 8.4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
11/3/2020 2:14 PM	00:00	7.54 pH	22.20 °C	646.44 µS/cm	4.45 mg/L		32.5 mV	64.20 ft	0.02 gal/min
11/3/2020 2:19 PM	05:00	7.40 pH	20.22 °C	667.55 µS/cm	4.48 mg/L	5.30 NTU	20.5 mV	64.40 ft	0.02 gal/min
11/3/2020 2:24 PM	10:00	7.35 pH	19.91 °C	676.01 µS/cm	4.51 mg/L	6.20 NTU	17.3 mV	64.50 ft	0.02 gal/min
11/3/2020 2:29 PM	15:00	7.32 pH	19.61 °C	679.02 µS/cm	4.55 mg/L	4.10 NTU	16.7 mV	64.60 ft	0.02 gal/min
11/3/2020 2:34 PM	20:00	7.31 pH	19.39 °C	682.64 µS/cm	4.59 mg/L	4.98 NTU	15.5 mV	64.80 ft	0.02 gal/min
11/3/2020 2:39 PM	25:00	7.30 pH	19.16 °C	679.75 µS/cm	4.59 mg/L	4.84 NTU	16.3 mV	64.80 ft	0.02 gal/min

Samples

Sample ID:	Description:
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Atlantic Coast Consulting, Inc. Well Development Field Record

Job Name: _____ Job No. _____ Well No. P2-23D
 Developed By: Jordan Bensford Date of Installation: _____ Sheet _____ of _____
 Started Dev. 10-30-20/1630 Completed Dev. _____
 Date / Time Date / Time
 W.L. Before Dev. 50.09/10-30-20/1010 W.L. After Dev. 54.21/10-30-20/1307
 BTOC / Date / Time BTOC / Date / Time
 Well Depth Before Dev.: 94.80 BTOC Well Depth After Dev.: 94.80 BTOC
 Water Column (H): 44.71 Ft. Well Dia.: 2 In. Well Volume: 7.15 Gal.
 Screen Length: 10 Ft.

Date / Time	Volume Removed (Gal.)	Field Parameters				D ₁₀ / D ₂₅ / D ₇₅	Remarks
		Specific Cond. (umhos/cm)	Temperature (oC)	pH (S.U.)	Turbidity (NTU)		
<u>10-30-20/1235</u>	<u>281.4</u>	<u>358</u>	<u>18.78</u>	<u>6.55</u>	<u>1.71</u>	<u>0.24 / 79</u>	
<u>1240</u>	<u>294.6</u>	<u>363</u>	<u>18.7</u>	<u>6.54</u>	<u>1.61</u>	<u>0.26 / 77</u>	
<u>1245</u>	<u>307.8</u>	<u>362</u>	<u>18.8</u>	<u>6.53</u>	<u>1.55</u>	<u>0.28 / 76</u>	
<u>1250</u>	<u>321</u>	<u>361</u>	<u>18.8</u>	<u>6.52</u>	<u>1.24</u>	<u>0.48 / 76</u>	
<u>1255</u>	<u>334.2</u>	<u>364</u>	<u>18.8</u>	<u>6.50</u>	<u>1.03</u>	<u>0.20 / 76</u>	

Development Method: 2.75/mh = 3.5 G/mh - 1010-1650 ~ 140 L
7.5 L/mh - 1050-1140 375
10 L/mh 1140-1255 750

Notes: H = well depth (BTOC) - W.L. (BTOC)
 Well volume in pipe:
 2" diameter well: 0.16 X H = volume in gallons
 4" diameter well: 0.66 X H = volume in gallons

Low-Flow Test Report:

Test Date / Time: 10/30/2020 12:30:04 PM

Project: Plant Wansley - Ash Pond Developments

Operator Name: Jordan Berisford

Location Name: PZ-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84.8 ft Total Depth: 94.8 ft Initial Depth to Water: 50.09 ft	Pump Type: Grunfos Tubing Type: Poly Pump Intake From TOC: 93 ft Estimated Total Volume Pumped: 1265 liter Flow Cell Volume: 90 ml Final Flow Rate: 10000 ml/min Final Draw Down: 464.52 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
10/30/2020 12:30 PM	00:00	7.12 pH	12.05 °C	44.91 µS/cm	10.67 mg/L	1.09 NTU	255.1 mV	88.80 ft	10,000.0 ml/min
10/30/2020 12:35 PM	05:00	6.55 pH	18.72 °C	358.81 µS/cm	0.29 mg/L	1.61 NTU	79.9 mV	88.80 ft	10,000.0 ml/min
10/30/2020 12:40 PM	10:00	6.54 pH	18.78 °C	363.13 µS/cm	0.26 mg/L	1.55 NTU	77.6 mV	88.80 ft	10,000.0 ml/min
10/30/2020 12:45 PM	15:00	6.53 pH	18.80 °C	362.33 µS/cm	0.28 mg/L	1.24 NTU	76.0 mV	88.80 ft	10,000.0 ml/min
10/30/2020 12:50 PM	20:00	6.52 pH	18.80 °C	361.47 µS/cm	0.48 mg/L	1.61 NTU	76.2 mV	88.80 ft	10,000.0 ml/min
10/30/2020 12:55 PM	25:00	6.50 pH	18.80 °C	364.23 µS/cm	0.50 mg/L	1.83 NTU	76.9 mV	88.80 ft	10,000.0 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Total of 40 gallons purged between
10/27/2020 and 11/2/2020

Test Date / Time: 11/2/2020 11:23:35 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: PZ-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.51 ft Total Depth: 40.51 ft Initial Depth to Water: 16.43 m	Pump Type: Whale Development Tubing Type: Poly Pump Intake From TOC: 40 ft Estimated Total Volume Pumped: 5.177 gal Flow Cell Volume: 90 ml Final Flow Rate: 0.2 gal/min Final Draw Down: 15.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Depth to Water 31.6 BTOC

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10	+/- 10	+/- 10	+/- 10	
11/2/2020 11:23 AM	00:00	5.86 pH	19.20 °C	244.50 µS/cm	1.19 mg/L		90.9 mV	61.60 cm	0.20 gal/min
11/2/2020 11:24 AM	00:53	5.87 pH	19.24 °C	242.18 µS/cm	1.20 mg/L		91.8 mV	31.60 cm	0.20 gal/min
11/2/2020 11:29 AM	05:53	5.87 pH	19.27 °C	241.66 µS/cm	1.25 mg/L	5.89 NTU	88.6 mV	31.60 cm	0.20 gal/min
11/2/2020 11:34 AM	10:53	5.87 pH	19.28 °C	243.03 µS/cm	1.28 mg/L	4.53 NTU	88.8 mV	31.60 cm	0.20 gal/min
11/2/2020 11:39 AM	15:53	5.86 pH	19.59 °C	245.44 µS/cm	1.28 mg/L	4.17 NTU	88.0 mV	31.60 cm	0.20 gal/min
11/2/2020 11:44 AM	20:53	5.86 pH	19.46 °C	248.02 µS/cm	1.30 mg/L	4.04 NTU	90.0 mV	31.60 cm	0.20 gal/min
11/2/2020 11:49 AM	25:53	5.85 pH	19.61 °C	250.37 µS/cm	1.29 mg/L	4.82 NTU	89.3 mV	31.60 cm	0.20 gal/min

Samples

Sample ID:	Description:
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Atlantic Coast Consulting, Inc. Well Development Field Record

Job Name: _____ Job No. _____ Well No. PZ-255
 Developed By: O. FUQUEN Date of Installation: _____ Sheet _____ of _____
 Started Dev. 10/30/20 1255 Completed Dev. _____ Date / Time _____
 W.L. Before Dev. 31.06 10/30/20 1250 W.L. After Dev. _____ Date / Time _____
 BTOC / Date / Time _____ BTOC / Date / Time _____
 Well Depth Before Dev.: 53.86 BTOC Well Depth After Dev.: _____ BTOC
 Water Column (H): _____ Ft. Well Dia.: _____ In. Well Volume: _____ Gal.
 Screen Length: _____ Ft.

Date / Time	Volume Removed (Gal.)	Field Parameters				Remarks
		Specific Cond. (umhos/cm)	Temperature (oC)	pH (S.U.)	Turbidity (NTU)	
<u>10/30/20</u> <u>1340</u>	<u>5</u>	<u>NA</u>			<u>>1000</u>	<u>Q = 2 gal/min</u>
<u>1450</u>	<u>200</u>				<u>39</u>	

Development Method: _____ 1310-1450 - 2gal/min
NI

Notes: H = well depth (BTOC) - W.L. (BTOC)
 Well volume in pipe:
 2" diameter well: $0.16 \times H$ = volume in gallons
 4" diameter well: $0.66 \times H$ = volume in gallons

Total of 510 gallons purged between
10/30/2020 and 11/2/2020

Low-Flow Test Report:

Test Date / Time: 11/2/2020 11:50:50 AM
Project: Plant Wansley - Ash Pond Developments
Operator Name: Jordan Berisford

Location Name: PZ-25S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.86 ft Total Depth: 53.86 ft Initial Depth to Water: 31.06 ft	Pump Type: Whale Pump Tubing Type: Poly Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 187.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 7500 ml/min Final Draw Down: 158.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
11/2/2020 11:50 AM	00:00	5.96 pH	17.94 °C	108.03 µS/cm	4.46 mg/L		99.6 mV	31.06 ft	7,500.0 ml/min
11/2/2020 11:55 AM	05:00	5.63 pH	18.07 °C	111.74 µS/cm	4.20 mg/L	7.29 NTU	107.9 mV	44.30 ft	7,500.0 ml/min
11/2/2020 12:00 PM	10:00	5.51 pH	18.08 °C	121.42 µS/cm	4.48 mg/L	7.04 NTU	112.6 mV	44.30 ft	7,500.0 ml/min
11/2/2020 12:05 PM	15:00	5.47 pH	18.16 °C	116.26 µS/cm	4.55 mg/L	5.19 NTU	113.9 mV	44.30 ft	7,500.0 ml/min
11/2/2020 12:10 PM	20:00	5.48 pH	18.16 °C	112.97 µS/cm	4.52 mg/L	3.72 NTU	122.0 mV	44.30 ft	7,500.0 ml/min
11/2/2020 12:15 PM	25:00	5.50 pH	18.20 °C	111.25 µS/cm	4.47 mg/L	2.55 NTU	112.9 mV	44.30 ft	7,500.0 ml/min

Samples

Sample ID:	Description:
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**Atlantic Coast Consulting, Inc.
Well Development Field Record**

Job Name: Wunsley Developments
 Developed By: Jordan Brisford
 Started Dev. 10-23-20 / 1035
 Date / Time
 W.L. Before Dev. 15.45 / 10-23-20 / 1016
 BTOC / Date / Time
 Well Depth Before Dev.: 40.80 BTOC
 Water Column (H): 25.35 Ft. Well Dia.: 2 In.
 Screen Length: 10 Ft.

Job No. _____ Well No. PZ-265
 Date of Installation: _____ Sheet 1 of 1
 Completed Dev. 10-23-20 / 1400
 Date / Time
 W.L. After Dev. 20.19 / 10-23-20 / 1410
 BTOC / Date / Time
 Well Depth After Dev.: 40.80 BTOC
 Well Volume: 4.1 Gal.

Date / Time	Volume Removed (Gal.)	Field Parameters				DO/ORP	Remarks
		Specific Cond. (umhos/cm)	Temperature (oC)	pH (S.U.)	Turbidity (NTU)		
10-23/1110	44.4	723	18.9	4.44	42	0.28/180	
1140	77.7	697	19.1	4.60	892	0.31/183	Surged Pump
1210	111	682	18.9	4.48	35	0.37/187	
1240	144.3	670	19.0	4.59	422	0.39/183	Surged Pump
1310	177	659	19.0	4.74	14	0.40/179	Surged Pump after Purging
1335	205.3	653	19.1	4.92	89	0.40/187	
1340	210.4	655	19.2	5.00	11	0.40/137	
1345	216.5	655	19.2	4.96	9.42	0.40/136	
1350	222	653	19.1	4.85	5.21	0.40/139	
1355	227.5	652	19.2	4.81	2.91	0.40/140	
1400	233 216.5	648 648	19.0	4.79	0.85	0.40/179	

Development Method: Surged well with surge Blockers $Q = 4.2 L/min \Rightarrow 1.11 gal/min$
+ First value prior to development, Surged whole pump
periodically during development
 $3(60) = 180 + 15 = 195 (1.11 gal/min) = 216.5 gals$

Notes: H = well depth (BTOC) - W.L. (BTOC)
 Well volume in pipe:
 2" diameter well: $0.16 \times H =$ volume in gallons
 4" diameter well: $0.66 \times H =$ volume in gallons

Low-Flow Test Report:

Test Date / Time: 10/23/2020 1:30:17 PM

Project: Plant Wansley - Ash Pond Developments

Operator Name: Jordan Berisford

Location Name: PZ-26S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.8 ft Total Depth: 40.8 ft Initial Depth to Water: 15.45 ft	Pump Type: Whale Pump Tubing Type: Poly Pump Intake From TOC: 40 ft Estimated Total Volume Pumped: 216.5 gal Flow Cell Volume: 90 ml Final Flow Rate: 4200 ml/min Final Draw Down: 174.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
10/23/2020 1:30 PM	00:00	4.74 pH	19.04 °C	660.66 µS/cm	0.40 mg/L		164.6 mV	15.45 ft	4,200.0 ml/min
10/23/2020 1:35 PM	05:00	4.92 pH	19.18 °C	653.99 µS/cm	0.40 mg/L	89.00 NTU	187.5 mV	30.00 ft	4,200.0 ml/min
10/23/2020 1:40 PM	10:00	5.00 pH	19.22 °C	655.93 µS/cm	0.40 mg/L	11.00 NTU	137.2 mV	30.00 ft	4,200.0 ml/min
10/23/2020 1:45 PM	15:00	4.96 pH	19.24 °C	655.16 µS/cm	0.40 mg/L	9.42 NTU	136.3 mV	30.00 ft	4,200.0 ml/min
10/23/2020 1:50 PM	20:00	4.85 pH	19.11 °C	653.97 µS/cm	0.40 mg/L	5.21 NTU	139.2 mV	30.00 ft	4,200.0 ml/min
10/23/2020 1:55 PM	25:00	4.81 pH	19.21 °C	652.34 µS/cm	0.40 mg/L	2.71 NTU	140.0 mV	30.00 ft	4,200.0 ml/min
10/23/2020 2:00 PM	30:00	4.79 pH	19.03 °C	648.65 µS/cm	0.40 mg/L	0.85 NTU	179.6 mV	30.00 ft	4,200.0 ml/min

Samples

Sample ID:	Description:
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Atlantic Coast Consulting, Inc. Well Development Field Record

Job Name: Plant Wastewater AP Developments Job No. _____ Well No. PZ-260
 Developed By: Jordan Brasford Date of Installation: _____ Sheet 1 of 1
 Started Dev. 1110 Completed Dev. 10-22-20/1425
 W.L. Before Dev. 16.25/10-22-20/1039 W.L. After Dev. 29.42/10-22-20/1437
 Date / Time BTOC / Date / Time Date / Time BTOC / Date / Time
 Well Depth Before Dev.: 80.11 BTOC Well Depth After Dev.: 80.11 BTOC
 Water Column (H): 63.86 Ft. Well Dia.: 2 In. Well Volume: 10.22 Gal.
 Screen Length: 10 Ft.

Date / Time	Volume Removed (Gal.)	Field Parameters				DO / ORP	Remarks
		Specific Cond. (umhos/cm)	Temperature (oC)	pH (S.U.)	Turbidity (NTU)		
10/22-1145	100	484	20.7	6.72	107	0.91 / 64	
1215	107.8	403	25.8	7.00	49	1.58 / 53	
1240	114.3	329	21.6	6.46	18	0.81 / 41	
1300	119.5	292	21.8	6.10	41	0.77 / 52	- surged pump in well
1330	127.3	270	27.6	5.98	12	0.78 / 53	
1400	135.1	269	22.9	5.96	10	0.81 / 51	
1405	136.4	269 303	23.1	5.97	9.96	0.80 / 50	
1410	137.7	351	22.1	5.98	8.11	0.81 / 51	
1415	139	393	22.4	5.98	7.83	0.81 / 51	
1420	140.3	391	22.8	6.01	6.02	0.84 / 50	
1425	141.6	402	22.9	6.03	4.81	0.82 / 49	
1430							

Development Method: Q = 1.1 L/min
Surged well with Foot valve + Q = 3.3 L/min for 30 mins, speed down to 1 L/min
Surge Blanking prior to development 0.87 gals for 30
6" Borehole dia - 2" well casing 1 gal = 3.785 liters
1.469 (63.86) = 93.81 (5) => 469.1 gals => 1,775.54 liters
(.16) 63.86 = 10.22 gals (5) => 51.1 gals => 193.4 liters / 3.3

Notes: H = well depth (BTOC) - W.L. (BTOC) 0.26 2.6 gal + 70 gals
 Well volume in pipe: 1140-
 2" diameter well: 0.16 X H = volume in gallons 120 + 210^2.5 = 1605 [444 = 44]
 4" diameter well: 0.66 X H = volume in gallons

Low-Flow Test Report:

Test Date / Time: 10/22/2020 2:00:46 PM

Project: Plant Wansley - Ash Pond Developments

Operator Name: O. Fuquea

Location Name: PZ-26D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 70.11 ft Total Depth: 80.11 ft Initial Depth to Water: 16.25 ft	Pump Type: Whale Pump Tubing Type: Poly Pump Intake From TOC: 78 ft Estimated Total Volume Pumped: 25 liter Flow Cell Volume: 90 ml Final Flow Rate: 1000 ml/min Final Draw Down: 367.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Well development, 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
10/22/2020 2:00 PM	00:00	5.96 pH	23.01 °C	269.97 µS/cm	0.80 mg/L	10.00 NTU	51.3 mV	46.40 ft	1,000.00 ml/min
10/22/2020 2:05 PM	05:00	5.97 pH	23.10 °C	303.54 µS/cm	0.80 mg/L	9.96 NTU	50.9 mV	46.50 ft	1,000.00 ml/min
10/22/2020 2:10 PM	10:00	5.98 pH	22.16 °C	351.42 µS/cm	0.81 mg/L	8.11 NTU	51.7 mV	46.70 ft	1,000.00 ml/min
10/22/2020 2:15 PM	15:00	5.98 pH	22.40 °C	393.12 µS/cm	0.81 mg/L	7.83 NTU	51.8 mV	46.90 ft	1,000.00 ml/min
10/22/2020 2:20 PM	20:00	6.01 pH	22.88 °C	391.02 µS/cm	0.84 mg/L	6.02 NTU	50.6 mV	46.90 ft	1,000.00 ml/min
10/22/2020 2:25 PM	25:00	6.03 pH	22.93 °C	402.55 µS/cm	0.82 mg/L	4.81 NTU	49.2 mV	46.90 ft	1,000.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 11/2/2020 12:20:30 PM

Project: Plant Wansley

Operator Name: Taylor Goble

Location Name: PZ-27-S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 m Top of Screen: 29.87 ft Total Depth: 39.87 ft Initial Depth to Water: 17.4 ft	Pump Type: Whale Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 100 gal Flow Cell Volume: 90 ml Final Flow Rate: 1000 ml/min Final Draw Down: 5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Sunny 54 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
11/2/2020 12:20 PM	00:00	5.77 pH	17.32 °C	255.52 µS/cm	1.09 mg/L	2.22 NTU	90.5 mV	23.95 ft	1000 ml/min
11/2/2020 12:25 PM	05:00	5.77 pH	17.31 °C	246.82 µS/cm	1.08 mg/L	1.74 NTU	89.8 mV	23.95 ft	1000 ml/min
11/2/2020 12:30 PM	10:00	5.75 pH	17.31 °C	251.79 µS/cm	1.06 mg/L	1.38 NTU	92.0 mV	23.95 ft	1000 ml/min
11/2/2020 12:35 PM	15:00	5.76 pH	17.32 °C	243.72 µS/cm	1.06 mg/L	1.25 NTU	91.1 mV	23.95 ft	1000 ml/min
11/2/2020 12:40 PM	20:00	5.76 pH	17.32 °C	242.27 µS/cm	1.04 mg/L	1.17 NTU	91.8 mV	23.95 ft	1000 ml/min
11/2/2020 12:45 PM	25:00	5.75 pH	17.32 °C	250.25 µS/cm	1.04 mg/L	1.09 NTU	92.5 mV	23.95 ft	1000 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 11/2/2020 1:15:54 PM

Project: Plant Wansley

Operator Name: Taylor Goble

Location Name: PZ-27-D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 m Top of Screen: 71.72 ft Total Depth: 81.72 ft Initial Depth to Water: 19.69 ft	Pump Type: Grundfos Tubing Type: Poly Pump Intake From TOC: 77.5 ft Estimated Total Volume Pumped: 102 gal Flow Cell Volume: 90 ml Final Flow Rate: 1000 ml/min Final Draw Down: 5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Weather Conditions:

Sunny 57 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
11/2/2020 1:15 PM	00:00	7.67 pH	17.69 °C	210.19 µS/cm	-0.01 mg/L	2.74 NTU	-12.4 mV	21.50 ft	1000 ml/min
11/2/2020 1:20 PM	05:00	7.72 pH	17.73 °C	209.42 µS/cm	-0.01 mg/L	2.27 NTU	-30.4 mV	21.50 ft	1000 ml/min
11/2/2020 1:25 PM	10:00	7.76 pH	17.73 °C	208.56 µS/cm	-0.01 mg/L	1.71 NTU	-48.0 mV	21.50 ft	1000 ml/min
11/2/2020 1:30 PM	15:00	7.78 pH	17.75 °C	208.35 µS/cm	-0.01 mg/L	1.69 NTU	-62.4 mV	21.50 ft	1000 ml/min
11/2/2020 1:35 PM	20:00	7.79 pH	17.77 °C	208.37 µS/cm	-0.01 mg/L	1.57 NTU	-73.3 mV	21.50 ft	1000 ml/min
11/2/2020 1:40 PM	25:00	7.79 pH	17.75 °C	207.96 µS/cm	-0.02 mg/L	1.74 NTU	-80.2 mV	21.50 ft	1000 ml/min
11/2/2020 1:45 PM	30:00	7.80 pH	17.78 °C	208.11 µS/cm	-0.02 mg/L	1.51 NTU	-85.6 mV	21.50 ft	1000 ml/min
11/2/2020 1:50 PM	35:00	7.80 pH	17.77 °C	208.24 µS/cm	-0.02 mg/L	1.35 NTU	-89.8 mV	21.50 ft	1000 ml/min
11/2/2020 1:55 PM	40:00	7.80 pH	17.86 °C	208.06 µS/cm	-0.02 mg/L	1.28 NTU	-93.0 mV	21.50 ft	1000 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 11/3/2020 12:10:59 PM

Project: Plant Wansley - Ash Pond Developments

Operator Name: Jordan Berisford

<p>Location Name: PZ-28 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.96 ft Total Depth: 72.96 ft Initial Depth to Water: 29.06 ft</p>	<p>Pump Type: Whale Pump Tubing Type: Poly Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 72 liter Flow Cell Volume: 90 ml Final Flow Rate: 3600 ml/min Final Draw Down: 136.08 m</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 714344</p>
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
11/3/2020 12:10 PM	00:00	5.45 pH	17.82 °C	65.28 µS/cm	4.43 mg/L	3.51 NTU	109.3 mV	29.06 ft	3,600.0 ml/min
11/3/2020 12:15 PM	05:00	5.26 pH	17.71 °C	63.05 µS/cm	4.70 mg/L	3.04 NTU	106.1 mV	29.06 ft	3,600.0 ml/min
11/3/2020 12:20 PM	10:00	5.32 pH	17.72 °C	64.88 µS/cm	4.84 mg/L	2.89 NTU	99.7 mV	29.06 ft	3,600.0 ml/min
11/3/2020 12:25 PM	15:00	5.38 pH	17.71 °C	65.04 µS/cm	4.96 mg/L	2.09 NTU	102.5 mV	29.06 ft	3,600.0 ml/min
11/3/2020 12:30 PM	20:00	5.38 pH	17.71 °C	64.63 µS/cm	5.00 mg/L	1.47 NTU	100.9 mV	29.06 ft	3,600.0 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 11/5/2020 1:00:14 PM

Project: Plant Wansley Ash Pond

Operator Name: O. Fuquea

Location Name: PZ-29S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.93 ft Total Depth: 49.93 ft Initial Depth to Water: 19.9 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 22.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
11/5/2020 1:00 PM	00:00	5.65 pH	20.23 °C	541.58 µS/cm	0.87 mg/L		71.2 mV	19.90 ft	225.00 ml/min
11/5/2020 1:05 PM	05:00	5.69 pH	20.09 °C	508.46 µS/cm	0.78 mg/L	5.20 NTU	66.6 mV	35.70 ft	225.00 ml/min
11/5/2020 1:10 PM	10:00	5.67 pH	20.08 °C	518.20 µS/cm	0.77 mg/L	5.09 NTU	62.6 mV	35.70 ft	225.00 ml/min
11/5/2020 1:15 PM	15:00	5.67 pH	20.17 °C	516.75 µS/cm	0.74 mg/L	3.08 NTU	60.0 mV	35.80 ft	225.00 ml/min
11/5/2020 1:20 PM	20:00	5.70 pH	20.17 °C	531.27 µS/cm	0.67 mg/L	5.00 NTU	57.9 mV	35.80 ft	225.00 ml/min
11/5/2020 1:25 PM	25:00	5.69 pH	20.18 °C	549.86 µS/cm	0.70 mg/L	4.51 NTU	56.3 mV	35.90 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 11/5/2020 2:30:45 PM

Project: Plant Wansley Ash Pond

Operator Name: J. Berisford

Location Name: PZ-29D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.5 ft Total Depth: 129.5 ft Initial Depth to Water: 21.34 ft	Pump Type: Grunfos Tubing Type: Poly Pump Intake From TOC: 128.5 ft Estimated Total Volume Pumped: 661 liter Flow Cell Volume: 90 ml Final Flow Rate: 2000 ml/min Final Draw Down: 106.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
11/5/2020 2:30 PM	00:00	5.27 pH	23.74 °C	293.61 µS/cm	2.49 mg/L	6.34 NTU	45.9 mV	127.50 ft	2,000.0 ml/min
11/5/2020 2:35 PM	05:00	5.99 pH	23.61 °C	293.26 µS/cm	2.44 mg/L	4.62 NTU	42.3 mV	127.50 ft	2,000.0 ml/min
11/5/2020 2:40 PM	10:00	6.01 pH	23.70 °C	292.31 µS/cm	2.27 mg/L	4.44 NTU	40.3 mV	127.50 ft	2,000.0 ml/min
11/5/2020 2:45 PM	15:00	6.02 pH	23.74 °C	291.93 µS/cm	2.20 mg/L	3.79 NTU	38.9 mV	127.50 ft	2,000.0 ml/min
11/5/2020 2:50 PM	20:00	6.03 pH	23.68 °C	290.96 µS/cm	2.16 mg/L	2.82 NTU	37.9 mV	127.50 ft	2,000.0 ml/min
11/5/2020 2:55 PM	25:00	6.03 pH	23.70 °C	291.16 µS/cm	2.09 mg/L	3.04 NTU	36.9 mV	127.50 ft	2,000.0 ml/min

Samples

Sample ID:	Description:
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APPENDIX E

Certified Piezometer Survey Data

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail on Pad Northing	Nail on Pad Easting	Nail on Pad Elevation
PZ-22	1243350.7570	2029769.4340	807.95	1243351.5210	2029768.3170	804.88
PZ-23D	1242139.5320	2028520.8680	834.32	1242138.6260	2028521.5100	831.89
PZ-23S	1242139.3280	2028512.6500	834.41	1242138.3710	2028513.3390	831.79
PZ-24	1241695.2460	2028116.0540	810.37	1241694.5570	2028117.2730	807.00
PZ-25S	1240769.7850	2027414.5750	823.80	1240770.8890	2027414.3720	820.50
PZ-26D	1239919.4530	2024146.3480	804.93	1239920.5460	2024145.9060	802.31
PZ-26S	1239916.6790	2024139.8210	804.80	1239917.8130	2024139.2740	802.22
PZ-27D	1240190.9250	2023620.3600	809.28	1240191.2500	2023619.0790	806.22
PZ-27S	1240184.1820	2023616.6900	808.98	1240184.5500	2023615.5290	805.98
PZ-28	1240066.0150	2022624.7330	816.18	1240066.0550	2022623.6960	813.57
PZ-29D	1244304.8990	2028853.2900	805.24	1244304.4270	2028852.7910	805.77
PZ-29S	1244317.1290	2028839.6800	805.30	1244316.6610	2028839.1970	805.80

Benchmark	Northing	Easting	Elevation
BM-W1	1243475.416	2029633.083	804.08

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 11/04/2020-11/05/2020. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R10 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-W1 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL



Jimmy R. Toole

11/17/2020

APPENDIX C
Well Inspection Forms

Facility Name: Plant Wansley AP

Well Inspection Form - Well Inspection Criteria

Date: 2/3/2020
Staff: H. Auld

1 - Location/Identification

- a Is the well visible and accessible?
- b Is the well properly identified with the correct well ID?
- c Does the well require protection from traffic?
- d Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)

2 - Protective Outer Casing

- a Is the protective casing free from apparent damage?
- b Is the casing free of degradation or deterioration?
- c Does the casing have a functioning weep hole?
- d Is the annular space between casings filled with pea gravel or sand?
- e Is the well locked, and is the lock in good working condition?

3 - Surface Pad

- a Is the well pad in good condition? (Not cracked or broken)
- b Does the well pad provide adequate surface seal and stability to the well?
- c Is the well pad in complete contact with the protective casing?
- d Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)
- e Is the pad surface clean? (Not covered by soil or debris)

4 - Internal Well Casing

- a Does the well cap prevent entry of foreign material into the well?
- b Is the casing free of kinks or bends, or any obstruction from foreign objects ?
- c Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?

5 - Based on your professional judgment, is the well construction / location appropriate to:

- a Achieve the objectives of the facility Ground Water Monitoring Program?
- b Comply with the applicable regulatory requirements?

Facility Name: Plant Wansley AP

Well Inspection Form - Well Condition Log

Date:

Initials:

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
WGWA-1	✓			
WGWA-2	✓			
WGWA-3	✓			
WGWA-4	✓			
WGWA-5	✓			
WGWA-6	✓			
WGWA-7	✓			
WGWA-18	✓			
WGWC-8	✓			
WGWC-9	✓			
WGWC-10	✓			
WGWC-11	✓			
WGWC-12	✓			
WGWC-13	✓			
WGWC-14A	✓			
WGWC-15	✓			
WGWC-16	✓			
WGWC-17	✓			
WGWC-19	✓			

Check all appropriate boxes above. On the following page, provide details for any deficiencies and corrective actions taken. If any repairs could not be made, list them in the corrective actions still needed table.

Facility Name: Plant Wansley AP

Well Inspection Form - Well Condition Log

Date: 2/3/2020

Initials: HA

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
PZ-1	✓			
PZ-4	✓			
PZ-6	✓			
PZ-8	✓			
PZ-10	✓			
PZ-11	✓			
PZ-12	✓			
PZ-15	✓			
PZ-16	✓			
PZ-17	✓			
PZ-18	✓			
PZ-20	✓			
WAMW-1	✓			
WAMW-2	✓			

Check all appropriate boxes above. On the following page, provide details for any deficiencies and corrective actions taken. If any repairs could not be made, list them in the corrective actions still needed table.

Well Inspection Form - Corrective Actions & Summary

Well ID

	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
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	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:

Well ID

Corrective Action Still Needed

	Deficiency Noted:
	Deficiency Noted:
	Deficiency Noted:
	Deficiency Noted:
	Deficiency Noted:

Summary

Initials: HA

All monitoring wells are in good condition and any needed repairs have been made

Initials:

Further corrective action is still needed - see list above

Staff: H. Auld

Signature: H. Auld

Date: 2/3/2020



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Site: Plant Wansley - Ash Ponds

Personnel: T. Goble

Date(s): 3-16-20 Page: 1 of 4

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
WGWA-1	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWA-2	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWA-3	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWA-4	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWA-5	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWA-6	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWA-7	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-8	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-9	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-10	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Site: Plant Wansley - Ash Ponds

Personnel: T. Goble

Date(s): 3-16-20

Page: 2 of 4

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
WGWC-11	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-12	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-13	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-14	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-14A	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-15	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-16	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWC-17	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WGWA-18	<input checked="" type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-1	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Site: Plant Wansley - Ash Ponds

Personnel: T. Goble

Date(s): 3-16-20

Page: 3 of 4

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
PZ-4	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-6	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-8	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-10	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-11	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-12	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-15	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-16	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-17	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	



ATLANTIC COAST
CONSULTING, INC.

WELL CONDITION SUMMARY

Site: Plant Wansley - Ash Ponds

Personnel: T. Gobic

Date(s): 3-16-20

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Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
PZ-18	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-20	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Well Inspection Form - Well Condition Log

Date: 9-8-20

Initials: OF/HA

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
PZ-1 HA	✓			
PZ-4 HA	✓			
PZ-6 HA	✓			
PZ-8 OF	✓	NA		→
PZ-10 OF	✓	NA		→
PZ-11 HA	✓			
PZ-12 OF	✓	NA		→
PZ-15 OF		No vis. weep hole	Weep hole added	
PZ-16 HA	✓			
PZ-17 HA		label missing "7"		✓
PZ-18 HA	✓			
PZ-20 OF		No pea gravel	Pea gravel added	
WAMW-1 OF	✓	NA		→
WAMW-2 OF	✓	NA		→
WGWA-1 OF	✓	NA		→
WGWA-2 OF	✓	NA		→
WGWA-3 HA	✓			
WGWA-4 HA	✓			
WGWA-5 HA	✓			

Check all appropriate boxes above. On the following page, provide details for any deficiencies and corrective actions taken. If any repairs could not be made, list them in the corrective actions still needed table.

Well Inspection Form - Well Condition Log

Date:

Initials: *OF / HA*

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
WGWA-6 <i>HA</i>	✓			
WGWA-7 <i>HA</i>	✓			
WGWA-18 <i>HA</i>	✓			
WGWC-8 <i>OF</i>		<i>No vis. weep hole</i>	<i>Weep hole added</i>	
WGWC-9 <i>OF</i>		<i>Pod buried by veg.</i>	<i>Uncovered pod</i>	
WGWC-10 <i>OF</i>	✓	<i>NA</i> →		
WGWC-11 <i>HA</i>		<i>Well overgrown</i> ↓		✓
WGWC-12 <i>HA</i>				✓
WGWC-13 <i>HA</i>	✓			
WGWC-14A	✓			
WGWC-15 <i>OF</i>	✓	<i>NA</i> →		
WGWC-16 <i>OF</i>	✓	<i>NA</i> →		
WGWC-17 <i>HA</i>	✓			
WGWC-19 <i>OF</i>	✓	<i>NA</i> →		
LPZ-3 <i>OF</i>		<i>No well cap.</i>	<i>Well Cap added.</i>	<i>NA</i>
PB-4S/D <i>OF</i>		<i>Pod buried by veg.</i>	<i>Uncovered pod.</i>	<i>NA</i>
LPZ-7 <i>HA</i>		<i>Needs cap (flush cap)</i>	<i>Cap added</i>	
LPZ-1 <i>HA</i>		<i>Needs well cap</i>	<i>Cap added</i>	

Check all appropriate boxes above. On the following page, provide details for any deficiencies and corrective actions taken. If any repairs could not be made, list them in the corrective actions still needed table.


All good: LPZ-4, LPZ-6, WAMW-1, PB-5S/D, PB-6S/D, PB-7

Well Inspection Form - Corrective Actions & Summary

Well ID	Deficiency Noted:	Action Taken:
PZ-15		added weep hole
PZ-20		added pea gravel
WGWIC-8		weep hole added
WGWIC-9		uncovered pad
LPZ-3		added cap
PB-4		uncovered pad
LPZ-7		cap added
LPZ-1		cap added
	Deficiency Noted:	Action Taken:
	Deficiency Noted:	Action Taken:
	Deficiency Noted:	Action Taken:
	Deficiency Noted:	Action Taken:
	Deficiency Noted:	Action Taken:
	Deficiency Noted:	Action Taken:

Well ID	Corrective Action Still Needed
Caps added	LPZ-3, LPZ-7, LPZ-1;
PZ-20	Pea gravel added
PZ-14	add new "7" to label, no access to key, unable to access
	Deficiency Noted:
	Deficiency Noted:

Summary

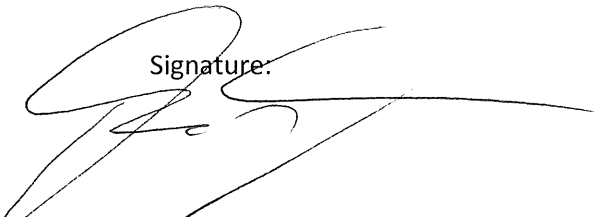
Initials: 

All monitoring wells are in good condition and any needed repairs have been made

Initials: OF

Further corrective action is still needed - see list above

Staff: OF/HA

Signature: 

Date: 4/25/20

APPENDIX D

Laboratory Analytical Reports and Field Sampling Forms

Appendix D1: Laboratory Analytical Data Packages and Data Validation Reports

Appendix D2: Field Data Forms

Appendix D3: Equipment Calibration Forms

APPENDIX D1

Laboratory Analytical Data Packages and Data Validation Reports

Laboratory Reports

ANALYTICAL REPORT

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

Laboratory Job ID: 180-102004-1

Client Project/Site: CCR - Plant Wansley

Sampling Event: Wansley Ash Pond Initial Scan Event

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
2/25/2020 8:05:04 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Job ID: 180-102004-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-102004-1**

Comments

No additional comments.

Receipt

The samples were received on 2/6/2020 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 3.8° C.

GC Semi VOA

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

Metals

Methods 200.8, 6020A, 6020B: The following samples were diluted due to the nature of the sample matrix: (180-101756-M-1-B ^100), (180-101756-M-1-C MS ^100), (180-101756-M-1-D MSD ^100), (180-101756-M-1-B PDS ^100) and (180-101756-M-1-B SD ^500). Elevated reporting limits (RLs) are provided.

Methods 200.8, 6020A, 6020B: The continuing calibration verification (CCV) associated with batch 180-307621 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects or less than the RL for the affected analytes; therefore, the data have been reported.

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: CCR - Plant Wansley

Job ID: 180-102004-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: CCR - Plant Wansley

Job ID: 180-102004-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20 *
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-102004-1	WGWA-2	Water	02/03/20 15:18	02/06/20 10:00	
180-102004-2	WGWA-4	Water	02/04/20 10:45	02/06/20 10:00	
180-102004-3	WGWA-3	Water	02/04/20 11:42	02/06/20 10:00	
180-102004-4	WGWA-5	Water	02/04/20 15:17	02/06/20 10:00	
180-102004-5	WGWA-6	Water	02/04/20 14:55	02/06/20 10:00	
180-102004-6	WGWA-1	Water	02/03/20 15:30	02/06/20 10:00	
180-102004-7	Dup-1	Water	02/04/20 00:00	02/06/20 10:00	
180-102004-8	FB-1-2-4-20	Water	02/04/20 14:30	02/06/20 10:00	
180-102004-9	EB-1-2-4-20	Water	02/04/20 14:00	02/06/20 10:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

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: CCR - Plant Wansley

Job ID: 180-102004-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-102004-1

Date Collected: 02/03/20 15:18

Matrix: Water

Date Received: 02/06/20 10:00

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			306773	02/12/20 17:56	SAC	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:19	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:07	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307012	02/13/20 16:03	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307145	02/14/20 15:02	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWA-4

Lab Sample ID: 180-102004-2

Date Collected: 02/04/20 10:45

Matrix: Water

Date Received: 02/06/20 10:00

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			307222	02/17/20 05:59	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:22	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:09	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307012	02/13/20 16:03	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307145	02/14/20 15:04	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWA-3

Lab Sample ID: 180-102004-3

Date Collected: 02/04/20 11:42

Matrix: Water

Date Received: 02/06/20 10:00

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			307222	02/17/20 06:51	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:24	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:12	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307012	02/13/20 16:03	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307145	02/14/20 15:05	NAM	TAL PIT
Instrument ID: HGZ										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-102004-4

Date Collected: 02/04/20 15:17

Matrix: Water

Date Received: 02/06/20 10:00

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			307222	02/17/20 07:06	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:27	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:24	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307128	02/14/20 13:55	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 14:12	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWA-6

Lab Sample ID: 180-102004-5

Date Collected: 02/04/20 14:55

Matrix: Water

Date Received: 02/06/20 10:00

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			307466	02/19/20 06:41	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:29	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:22	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307128	02/14/20 13:55	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 14:15	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWA-1

Lab Sample ID: 180-102004-6

Date Collected: 02/03/20 15:30

Matrix: Water

Date Received: 02/06/20 10:00

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			306773	02/12/20 18:41	SAC	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:31	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:14	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307128	02/14/20 13:55	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 14:16	NAM	TAL PIT
Instrument ID: HGZ										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Client Sample ID: Dup-1

Date Collected: 02/04/20 00:00

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-7

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			307222	02/17/20 07:21	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:34	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:27	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307128	02/14/20 13:55	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 14:17	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: FB-1-2-4-20

Date Collected: 02/04/20 14:30

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			307222	02/17/20 05:28	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:41	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:29	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307128	02/14/20 13:55	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 14:18	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: EB-1-2-4-20

Date Collected: 02/04/20 14:00

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			307222	02/17/20 05:43	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	306884	02/12/20 15:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307167	02/14/20 17:44	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	307378	02/18/20 09:20	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307621	02/19/20 18:32	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307128	02/14/20 13:55	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 14:21	NAM	TAL PIT
Instrument ID: HGZ										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

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

JL = James Lyu

KEM = Kimberly Mahoney

NAM = Nicole Marfisi

Batch Type: Analysis

MJH = Matthew Hartman

NAM = Nicole Marfisi

RSK = Robert Kurtz

SAC = Shawn Clemente

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-102004-1

Date Collected: 02/03/20 15:18

Matrix: Water

Date Received: 02/06/20 10:00

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			02/12/20 17:56	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		02/12/20 15:51	02/14/20 17:19	1
Barium	0.045		0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:07	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:19	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:19	1
Cobalt	0.00068		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:19	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:19	1
Lead	0.00013	J B	0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:19	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:19	1
Thallium	0.00020	J B	0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:19	1
Lithium	0.0085		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:07	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		02/13/20 16:03	02/14/20 15:02	1

Client Sample ID: WGWA-4

Lab Sample ID: 180-102004-2

Date Collected: 02/04/20 10:45

Matrix: Water

Date Received: 02/06/20 10:00

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			02/17/20 05:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00033	J	0.0010	0.00031	mg/L		02/12/20 15:51	02/14/20 17:22	1
Barium	0.0087	J	0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:09	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:22	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:22	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:22	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:22	1
Lead	0.00019	J B	0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:22	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:22	1
Lithium	0.0055		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:09	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		02/13/20 16:03	02/14/20 15:04	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-102004-3

Date Collected: 02/04/20 11:42

Matrix: Water

Date Received: 02/06/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.031	J	0.10	0.026	mg/L			02/17/20 06:51	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		02/12/20 15:51	02/14/20 17:24	1
Barium	0.019		0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:12	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:24	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:24	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:24	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:24	1
Lead	0.00013	J B	0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:24	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:24	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:24	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J	0.00020	0.00010	mg/L		02/13/20 16:03	02/14/20 15:05	1

Client Sample ID: WGWA-5

Lab Sample ID: 180-102004-4

Date Collected: 02/04/20 15:17

Matrix: Water

Date Received: 02/06/20 10:00

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			02/17/20 07:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/20 15:51	02/14/20 17:27	1
Barium	0.022		0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:24	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:27	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:27	1
Cobalt	0.00082		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:27	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:27	1
Lead	0.00024	J B	0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:27	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:27	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:24	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		02/14/20 13:55	02/17/20 14:12	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-102004-5

Date Collected: 02/04/20 14:55

Matrix: Water

Date Received: 02/06/20 10:00

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			02/19/20 06:41	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		02/12/20 15:51	02/14/20 17:29	1
Barium	0.013		0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:22	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:29	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:29	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:29	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:29	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:29	1
Lithium	0.0053		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:22	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		02/14/20 13:55	02/17/20 14:15	1

Client Sample ID: WGWA-1

Lab Sample ID: 180-102004-6

Date Collected: 02/03/20 15:30

Matrix: Water

Date Received: 02/06/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	J	0.10	0.026	mg/L			02/12/20 18:41	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		02/12/20 15:51	02/14/20 17:31	1
Barium	0.053		0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:14	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:31	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:31	1
Cobalt	0.00062		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:31	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:31	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:14	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		02/14/20 13:55	02/17/20 14:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Client Sample ID: Dup-1

Lab Sample ID: 180-102004-7

Date Collected: 02/04/20 00:00

Matrix: Water

Date Received: 02/06/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.036	J	0.10	0.026	mg/L			02/17/20 07:21	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		02/12/20 15:51	02/14/20 17:34	1
Barium	0.017		0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:27	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:34	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:34	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:34	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:34	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:34	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:34	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:27	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		02/14/20 13:55	02/17/20 14:17	1

Client Sample ID: FB-1-2-4-20

Lab Sample ID: 180-102004-8

Date Collected: 02/04/20 14:30

Matrix: Water

Date Received: 02/06/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.029	J	0.10	0.026	mg/L			02/17/20 05:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/20 15:51	02/14/20 17:41	1
Barium	<0.0016		0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:29	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:41	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:41	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:41	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:41	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:41	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:41	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:29	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		02/14/20 13:55	02/17/20 14:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Client Sample ID: EB-1-2-4-20

Lab Sample ID: 180-102004-9

Date Collected: 02/04/20 14:00

Matrix: Water

Date Received: 02/06/20 10:00

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			02/17/20 05:43	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		02/12/20 15:51	02/14/20 17:44	1
Barium	0.0017	J	0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:32	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 17:44	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 17:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 17:44	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 17:44	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 17:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 17:44	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 17:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 17:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 17:44	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:32	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		02/14/20 13:55	02/17/20 14:21	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

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

Lab Sample ID: MB 180-306773/48
Matrix: Water
Analysis Batch: 306773

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			02/12/20 17:40	1

Lab Sample ID: LCS 180-306773/47
Matrix: Water
Analysis Batch: 306773

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	2.53		mg/L		101	90 - 110

Lab Sample ID: 180-102004-1 MS
Matrix: Water
Analysis Batch: 306773

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.061	J	1.25	1.30		mg/L		99	80 - 120

Lab Sample ID: 180-102004-1 MSD
Matrix: Water
Analysis Batch: 306773

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.061	J	1.25	1.26		mg/L		96	80 - 120	4	20

Lab Sample ID: MB 180-307222/6
Matrix: Water
Analysis Batch: 307222

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			02/17/20 04:57	1

Lab Sample ID: LCS 180-307222/5
Matrix: Water
Analysis Batch: 307222

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	2.61		mg/L		104	90 - 110

Lab Sample ID: 180-102004-2 MS
Matrix: Water
Analysis Batch: 307222

Client Sample ID: WGWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.13		1.25	1.38		mg/L		100	80 - 120

Lab Sample ID: 180-102004-2 MSD
Matrix: Water
Analysis Batch: 307222

Client Sample ID: WGWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.13		1.25	1.36		mg/L		98	80 - 120	2	20

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

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

Lab Sample ID: MB 180-307466/6
Matrix: Water
Analysis Batch: 307466

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			02/19/20 05:51	1

Lab Sample ID: LCS 180-307466/5
Matrix: Water
Analysis Batch: 307466

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	2.58		mg/L		103	90 - 110

Lab Sample ID: 180-102004-5 MS
Matrix: Water
Analysis Batch: 307466

Client Sample ID: WGWA-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.13		1.25	1.35		mg/L		98	80 - 120

Lab Sample ID: 180-102004-5 MSD
Matrix: Water
Analysis Batch: 307466

Client Sample ID: WGWA-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.13		1.25	1.36		mg/L		99	80 - 120	1	20

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

Lab Sample ID: MB 180-306884/1-A
Matrix: Water
Analysis Batch: 307167

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 306884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/20 15:51	02/14/20 16:31	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/12/20 15:51	02/14/20 16:31	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/12/20 15:51	02/14/20 16:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/20 15:51	02/14/20 16:31	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/12/20 15:51	02/14/20 16:31	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/12/20 15:51	02/14/20 16:31	1
Lead	0.000161	J	0.0010	0.00013	mg/L		02/12/20 15:51	02/14/20 16:31	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/20 15:51	02/14/20 16:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/20 15:51	02/14/20 16:31	1
Thallium	0.000165	J	0.0010	0.00015	mg/L		02/12/20 15:51	02/14/20 16:31	1

Lab Sample ID: LCS 180-306668/2-C
Matrix: Water
Analysis Batch: 307167

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 306884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.542		mg/L		108	80 - 120
Cadmium	0.500	0.532		mg/L		106	80 - 120
Chromium	0.500	0.521		mg/L		104	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

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

Lab Sample ID: LCS 180-306668/2-C
Matrix: Water
Analysis Batch: 307167

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 306884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.500	0.500		mg/L		100	80 - 120
Molybdenum	0.500	0.520		mg/L		104	80 - 120
Lead	0.500	0.519		mg/L		104	80 - 120
Antimony	0.250	0.246		mg/L		98	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCS 180-306884/2-A
Matrix: Water
Analysis Batch: 307167

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 306884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.531		mg/L		106	80 - 120
Cadmium	0.500	0.531		mg/L		106	80 - 120
Chromium	0.500	0.520		mg/L		104	80 - 120
Cobalt	0.500	0.505		mg/L		101	80 - 120
Molybdenum	0.500	0.526		mg/L		105	80 - 120
Lead	0.500	0.513		mg/L		103	80 - 120
Antimony	0.250	0.246		mg/L		99	80 - 120
Selenium	1.00	0.999		mg/L		100	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: MB 180-307378/1-A
Matrix: Water
Analysis Batch: 307621

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 307378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0016		0.010	0.0016	mg/L		02/18/20 09:20	02/19/20 18:34	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/18/20 09:20	02/19/20 18:34	1

Lab Sample ID: LCS 180-307378/2-A
Matrix: Water
Analysis Batch: 307621

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 307378

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1.00	1.09		mg/L		109	80 - 120
Lithium	0.500	0.479		mg/L		96	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-307012/1-A
Matrix: Water
Analysis Batch: 307145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/13/20 16:03	02/14/20 14:41	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-307012/2-A
Matrix: Water
Analysis Batch: 307145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307012
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00255		mg/L		102	80 - 120

Lab Sample ID: 180-102004-3 MS
Matrix: Water
Analysis Batch: 307145

Client Sample ID: WGWA-3
Prep Type: Total/NA
Prep Batch: 307012
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00016	J	0.00100	0.00118		mg/L		102	75 - 125

Lab Sample ID: 180-102004-3 MSD
Matrix: Water
Analysis Batch: 307145

Client Sample ID: WGWA-3
Prep Type: Total/NA
Prep Batch: 307012
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00016	J	0.00100	0.00129		mg/L		113	75 - 125	9	20

Lab Sample ID: MB 180-307128/1-A
Matrix: Water
Analysis Batch: 307328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/14/20 13:55	02/17/20 14:10	1

Lab Sample ID: LCS 180-307128/2-A
Matrix: Water
Analysis Batch: 307328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307128
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00241		mg/L		96	80 - 120

Lab Sample ID: 180-102004-4 MS
Matrix: Water
Analysis Batch: 307328

Client Sample ID: WGWA-5
Prep Type: Total/NA
Prep Batch: 307128
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000955		mg/L		96	75 - 125

Lab Sample ID: 180-102004-4 MSD
Matrix: Water
Analysis Batch: 307328

Client Sample ID: WGWA-5
Prep Type: Total/NA
Prep Batch: 307128
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000992		mg/L		99	75 - 125	4	20

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

HPLC/IC

Analysis Batch: 306773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-102004-6	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-306773/48	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-306773/47	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102004-1 MS	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-102004-1 MSD	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 307222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-2	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-102004-3	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-102004-4	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-102004-7	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-102004-8	FB-1-2-4-20	Total/NA	Water	EPA 300.0 R2.1	
180-102004-9	EB-1-2-4-20	Total/NA	Water	EPA 300.0 R2.1	
MB 180-307222/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-307222/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102004-2 MS	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-102004-2 MSD	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 307466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-5	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	
MB 180-307466/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-307466/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102004-5 MS	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	
180-102004-5 MSD	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	

Metals

Filtration Batch: 306668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-306668/2-C	Lab Control Sample	Total Recoverable	Water	Filtration	

Prep Batch: 306884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total Recoverable	Water	3005A	
180-102004-2	WGWA-4	Total Recoverable	Water	3005A	
180-102004-3	WGWA-3	Total Recoverable	Water	3005A	
180-102004-4	WGWA-5	Total Recoverable	Water	3005A	
180-102004-5	WGWA-6	Total Recoverable	Water	3005A	
180-102004-6	WGWA-1	Total Recoverable	Water	3005A	
180-102004-7	Dup-1	Total Recoverable	Water	3005A	
180-102004-8	FB-1-2-4-20	Total Recoverable	Water	3005A	
180-102004-9	EB-1-2-4-20	Total Recoverable	Water	3005A	
MB 180-306884/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-306668/2-C	Lab Control Sample	Total Recoverable	Water	3005A	306668
LCS 180-306884/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Metals

Prep Batch: 307012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total/NA	Water	7470A	
180-102004-2	WGWA-4	Total/NA	Water	7470A	
180-102004-3	WGWA-3	Total/NA	Water	7470A	
MB 180-307012/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-307012/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102004-3 MS	WGWA-3	Total/NA	Water	7470A	
180-102004-3 MSD	WGWA-3	Total/NA	Water	7470A	

Prep Batch: 307128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-4	WGWA-5	Total/NA	Water	7470A	
180-102004-5	WGWA-6	Total/NA	Water	7470A	
180-102004-6	WGWA-1	Total/NA	Water	7470A	
180-102004-7	Dup-1	Total/NA	Water	7470A	
180-102004-8	FB-1-2-4-20	Total/NA	Water	7470A	
180-102004-9	EB-1-2-4-20	Total/NA	Water	7470A	
MB 180-307128/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-307128/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102004-4 MS	WGWA-5	Total/NA	Water	7470A	
180-102004-4 MSD	WGWA-5	Total/NA	Water	7470A	

Analysis Batch: 307145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total/NA	Water	EPA 7470A	307012
180-102004-2	WGWA-4	Total/NA	Water	EPA 7470A	307012
180-102004-3	WGWA-3	Total/NA	Water	EPA 7470A	307012
MB 180-307012/1-A	Method Blank	Total/NA	Water	EPA 7470A	307012
LCS 180-307012/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	307012
180-102004-3 MS	WGWA-3	Total/NA	Water	EPA 7470A	307012
180-102004-3 MSD	WGWA-3	Total/NA	Water	EPA 7470A	307012

Analysis Batch: 307167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total Recoverable	Water	EPA 6020B	306884
180-102004-2	WGWA-4	Total Recoverable	Water	EPA 6020B	306884
180-102004-3	WGWA-3	Total Recoverable	Water	EPA 6020B	306884
180-102004-4	WGWA-5	Total Recoverable	Water	EPA 6020B	306884
180-102004-5	WGWA-6	Total Recoverable	Water	EPA 6020B	306884
180-102004-6	WGWA-1	Total Recoverable	Water	EPA 6020B	306884
180-102004-7	Dup-1	Total Recoverable	Water	EPA 6020B	306884
180-102004-8	FB-1-2-4-20	Total Recoverable	Water	EPA 6020B	306884
180-102004-9	EB-1-2-4-20	Total Recoverable	Water	EPA 6020B	306884
MB 180-306884/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	306884
LCS 180-306668/2-C	Lab Control Sample	Total Recoverable	Water	EPA 6020B	306884
LCS 180-306884/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	306884

Analysis Batch: 307328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-4	WGWA-5	Total/NA	Water	EPA 7470A	307128
180-102004-5	WGWA-6	Total/NA	Water	EPA 7470A	307128
180-102004-6	WGWA-1	Total/NA	Water	EPA 7470A	307128

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley

Job ID: 180-102004-1

Metals (Continued)

Analysis Batch: 307328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-7	Dup-1	Total/NA	Water	EPA 7470A	307128
180-102004-8	FB-1-2-4-20	Total/NA	Water	EPA 7470A	307128
180-102004-9	EB-1-2-4-20	Total/NA	Water	EPA 7470A	307128
MB 180-307128/1-A	Method Blank	Total/NA	Water	EPA 7470A	307128
LCS 180-307128/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	307128
180-102004-4 MS	WGWA-5	Total/NA	Water	EPA 7470A	307128
180-102004-4 MSD	WGWA-5	Total/NA	Water	EPA 7470A	307128

Prep Batch: 307378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total Recoverable	Water	3005A	
180-102004-2	WGWA-4	Total Recoverable	Water	3005A	
180-102004-3	WGWA-3	Total Recoverable	Water	3005A	
180-102004-4	WGWA-5	Total Recoverable	Water	3005A	
180-102004-5	WGWA-6	Total Recoverable	Water	3005A	
180-102004-6	WGWA-1	Total Recoverable	Water	3005A	
180-102004-7	Dup-1	Total Recoverable	Water	3005A	
180-102004-8	FB-1-2-4-20	Total Recoverable	Water	3005A	
180-102004-9	EB-1-2-4-20	Total Recoverable	Water	3005A	
MB 180-307378/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-307378/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

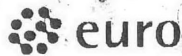
Analysis Batch: 307621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total Recoverable	Water	EPA 6020B	307378
180-102004-2	WGWA-4	Total Recoverable	Water	EPA 6020B	307378
180-102004-3	WGWA-3	Total Recoverable	Water	EPA 6020B	307378
180-102004-4	WGWA-5	Total Recoverable	Water	EPA 6020B	307378
180-102004-5	WGWA-6	Total Recoverable	Water	EPA 6020B	307378
180-102004-6	WGWA-1	Total Recoverable	Water	EPA 6020B	307378
180-102004-7	Dup-1	Total Recoverable	Water	EPA 6020B	307378
180-102004-8	FB-1-2-4-20	Total Recoverable	Water	EPA 6020B	307378
180-102004-9	EB-1-2-4-20	Total Recoverable	Water	EPA 6020B	307378
MB 180-307378/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	307378
LCS 180-307378/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	307378

Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: SCS10347656 Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Sampler: O. Fuquena / A. Auld Lab PM: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com) Phone: (770) 594-5998		Carrier Tracking No(s): TA-ATL p 2 (cup) COC No: 400-72601-28757.1 Page: _____ Page: _____ Job #: _____									
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: _____ Project #: 40007709 SSOW#: _____		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Metals App. IV <input checked="" type="checkbox"/> <input type="checkbox"/> Flouride (SW-846 9315/9320) <input checked="" type="checkbox"/> <input type="checkbox"/>											
Sample Identification WGWA-2 WGWA-4 WGWA-3 WGWA-5 WGWA-6 WGWA-1 FB-1-2-4-20 FB-1-2-4-20 DIP-1		Sample Date 2-3-20 2-4-20 2-4-20 2-4-20 2-4-20 2-3-20 2-4-20 2-4-20 2-4-20		Sample Time 1518 1045 1142 1517 1455 1530 1430 1400 /		Sample Type (C=Comp, G=grab) G G G G G G G G G		Preservation Code: W W W W W W W W W		Total Number of Containers 3 3 3 3 3 3 3 3 3		Special Instructions/OC Requirements: Return To Client <input checked="" type="checkbox"/> <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify) _____											
Empty Kit Relinquished by: _____ Date: _____		Method of Shipment: _____											
Relinquished by: _____ Date/Time: 2-4-20 / 13:45 Relinquished by: _____ Date/Time: 2/5/20 / 16:00 Relinquished by: _____ Date/Time: _____		Received by: _____ Date/Time: 2/5/20 / 13:45 Received by: _____ Date/Time: 2-6-20 / 10:00 Received by: _____ Date/Time: _____		Company: ACC Company: BLS Company: BLS Company: BLS Company: BLS Company: BLS Company: BLS Company: BLS Company: BLS Company: BLS									
Custody Seals Intact: _____ Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: _____											





02.06
0072

A

15:00

76 RT esting

39469-434 RIT EXP 07/20



180-102004 Waybill

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 05FEB20
ACTWT: 54.85/LB
CAD: 859116/CAFE3312

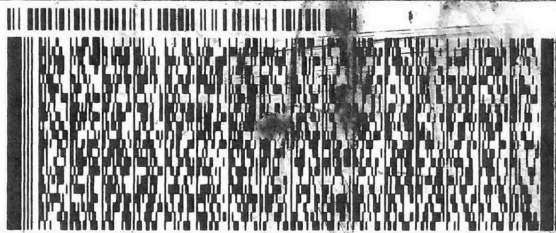
BILL RECIPIENT

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

(412) 963-7068

REF: ACC - PLT WANSLEY

0250/48PU/2355



FedEx
Express



APL00289612161F

1 of 2
TRK# 1516 9323 0072
0201
MASTER

THU - 06 FEB 3:00P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US PIT



Uncorrected temp
Thermometer ID 24 C
10

CF ⊖ Initials JB

PT-WI-SR-001 effective 11/8/18

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



Environment Testing
TestAmerica

Part # 159469-434 RIT EXP 07/20

SHIP TO: ID: LIYA (678) 966-9991
TAYLOR
TESTAMERICA
ENOUGH DRIVE
PA 30093
US

SHIP DATE: 0
ACTWGT: 54.8
CAD: 859116/

BILL RECEIPT

1 A
15:00
0083 90.06
RT 97 FZ

RECEIVING
TESTAMERICA PITTSBURGH
R.

PA 15238



THU - 06 FEB 3:00P
STANDARD OVERNIGHT

15238
PA-US PIT

ected temp
er ID

3.8 °C
10

Initials

JB

Effective 11/8/18



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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Bortol, Veronica	Carrier Tracking No(s): 180-384686.1
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-102004-1	
Address: 13715 Rider Trail North,		Preservation Codes:	
City: Earth City	State, Zip: MO, 63045	A - HCL	M - Hexane
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	B - NaOH	N - None
Email:	WO #:	C - Zn Acetate	O - AsNaO2
Project Name: CCR - Plant Wansley	Project #: 18019922	D - Nitric Acid	P - Na2O4S
Site: Wansley CCR	SSOW#:	E - NaHSO4	Q - Na2SO3
		F - MeOH	R - Na2S2O3
		G - Amchlor	S - H2SO4
		H - Ascorbic Acid	T - TSP Dodecahydrate
		I - Ice	U - Acetone
		J - DI Water	V - MCAA
		K - EDTA	W - pH 4-5
		L - EDA	Z - other (specify)
		Other:	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 (MOD) Copy Analyses	9320_Ra228/PreSep_0 (MOD) Copy Analyses	Ra226Ra228_GFPc (MOD) Local Method	Total Number of Containers	Special Instructions/Note:
WGWA-2 (180-102004-1)	2/3/20	15:18 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-4 (180-102004-2)	2/4/20	10:45 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-3 (180-102004-3)	2/4/20	11:42 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-5 (180-102004-4)	2/4/20	15:17 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-6 (180-102004-5)	2/4/20	14:55 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-1 (180-102004-6)	2/3/20	15:30 Eastern	Water	Water	X	X	X	X	X	1	
Dup-1 (180-102004-7)	2/4/20	Eastern	Water	Water	X	X	X	X	X	1	
FB-1-2-4-20 (180-102004-8)	2/4/20	14:30 Eastern	Water	Water	X	X	X	X	X	1	
EB-1-2-4-20 (180-102004-9)	2/4/20	14:00 Eastern	Water	Water	X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Time: <input type="text"/> Method of Shipment: <input type="text"/>	
Relinquished by: <i>[Signature]</i>	Date: 2/17/20 17:00	Relinquished by: <i>[Signature]</i>	Date/Time: 2-6-20 08:50
Relinquished by:	Date/Time:	Relinquished by:	Date/Time:
Relinquished by:	Date/Time:	Relinquished by:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Company: <i>[Signature]</i>	Company: <i>[Signature]</i>
Cooler Temperature(s) °C and Other Remarks:			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102004-1

Login Number: 102004

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?	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: 180-102004-2

Client Project/Site: CCR - Plant Wansley

Sampling Event: Wansley Ash Pond Initial Scan Event

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
3/11/2020 4:46:06 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Job ID: 180-102004-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-102004-2

Receipt

The samples were received on 2/6/2020 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 3.8° C.

RAD

Methods 903.0, 9315: Ra-226 Prep Batch 160-459759

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.

WGWA-2 (180-102004-1), WGWA-4 (180-102004-2), WGWA-3 (180-102004-3), WGWA-5 (180-102004-4), WGWA-6 (180-102004-5), WGWA-1 (180-102004-6), Dup-1 (180-102004-7), FB-1-2-4-20 (180-102004-8), EB-1-2-4-20 (180-102004-9), (LCS 160-459759/1-A), (LCSD 160-459759/2-A) and (MB 160-459759/22-A)

Methods 904.0, 9320: Radium-228 Prep Batch 160-459763

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.

WGWA-2 (180-102004-1), WGWA-4 (180-102004-2), WGWA-3 (180-102004-3), WGWA-5 (180-102004-4), WGWA-6 (180-102004-5), WGWA-1 (180-102004-6), Dup-1 (180-102004-7), FB-1-2-4-20 (180-102004-8), EB-1-2-4-20 (180-102004-9), (LCS 160-459763/1-A), (LCSD 160-459763/2-A) and (MB 160-459763/22-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: CCR - Plant Wansley

Job ID: 180-102004-2

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.
▫	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: CCR - Plant Wansley

Job ID: 180-102004-2

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20 *
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-102004-1	WGWA-2	Water	02/03/20 15:18	02/06/20 10:00	
180-102004-2	WGWA-4	Water	02/04/20 10:45	02/06/20 10:00	
180-102004-3	WGWA-3	Water	02/04/20 11:42	02/06/20 10:00	
180-102004-4	WGWA-5	Water	02/04/20 15:17	02/06/20 10:00	
180-102004-5	WGWA-6	Water	02/04/20 14:55	02/06/20 10:00	
180-102004-6	WGWA-1	Water	02/03/20 15:30	02/06/20 10:00	
180-102004-7	Dup-1	Water	02/04/20 00:00	02/06/20 10:00	
180-102004-8	FB-1-2-4-20	Water	02/04/20 14:30	02/06/20 10:00	
180-102004-9	EB-1-2-4-20	Water	02/04/20 14:00	02/06/20 10:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

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: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-102004-1

Date Collected: 02/03/20 15:18

Matrix: Water

Date Received: 02/06/20 10:00

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			1000.13 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:25	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.13 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461940	02/26/20 17:24	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-102004-2

Date Collected: 02/04/20 10:45

Matrix: Water

Date Received: 02/06/20 10:00

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			1000.38 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:25	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.38 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461940	02/26/20 17:24	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-102004-3

Date Collected: 02/04/20 11:42

Matrix: Water

Date Received: 02/06/20 10:00

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			999.95 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:25	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.95 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461940	02/26/20 17:24	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-102004-4

Date Collected: 02/04/20 15:17

Matrix: Water

Date Received: 02/06/20 10:00

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			1000.90 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:25	AJD	TAL SL
Instrument ID: GFPCRED										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-102004-4

Date Collected: 02/04/20 15:17

Matrix: Water

Date Received: 02/06/20 10:00

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			1000.90 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461940	02/26/20 17:24	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-102004-5

Date Collected: 02/04/20 14:55

Matrix: Water

Date Received: 02/06/20 10:00

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			999.98 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:26	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.98 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461940	02/26/20 17:24	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-1

Lab Sample ID: 180-102004-6

Date Collected: 02/03/20 15:30

Matrix: Water

Date Received: 02/06/20 10:00

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			999.08 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:26	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.08 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461940	02/26/20 17:24	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Lab Sample ID: 180-102004-7

Date Collected: 02/04/20 00:00

Matrix: Water

Date Received: 02/06/20 10:00

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			1000.27 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:26	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461921	02/26/20 17:28	AJD	TAL SL
Instrument ID: GFPCORANGE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: Dup-1

Date Collected: 02/04/20 00:00

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	SMP	TAL SL

Client Sample ID: FB-1-2-4-20

Date Collected: 02/04/20 14:30

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.80 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:26	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.80 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461921	02/26/20 17:28	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1-2-4-20

Date Collected: 02/04/20 14:00

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.08 mL	1.0 g	459759	02/10/20 07:45	MNH	TAL SL
Total/NA	Analysis	9315		1			462630	03/03/20 09:26	AJD	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.08 mL	1.0 g	459763	02/10/20 08:15	MNH	TAL SL
Total/NA	Analysis	9320		1			461921	02/26/20 17:28	AJD	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463073	03/04/20 10:54	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

MNH = Molly Howard

Batch Type: Analysis

AJD = Audra DeMariano

KLS = Kody Saulters

SMP = Siobhan Perry

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-102004-1

Date Collected: 02/03/20 15:18

Matrix: Water

Date Received: 02/06/20 10:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0922	U	0.0926	0.0930	1.00	0.148	pCi/L	02/10/20 07:45	03/03/20 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					02/10/20 07:45	03/03/20 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	-0.00435	U	0.237	0.237	1.00	0.423	pCi/L	02/10/20 08:15	02/26/20 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					02/10/20 08:15	02/26/20 17:24	1
Y Carrier	87.5		40 - 110					02/10/20 08:15	02/26/20 17:24	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	0.0879	U	0.254	0.255	2.00	0.423	pCi/L		03/04/20 10:54	1

Client Sample ID: WGWA-4

Lab Sample ID: 180-102004-2

Date Collected: 02/04/20 10:45

Matrix: Water

Date Received: 02/06/20 10:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.537		0.146	0.154	1.00	0.124	pCi/L	02/10/20 07:45	03/03/20 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					02/10/20 07:45	03/03/20 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	0.954		0.323	0.335	1.00	0.438	pCi/L	02/10/20 08:15	02/26/20 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					02/10/20 08:15	02/26/20 17:24	1
Y Carrier	89.0		40 - 110					02/10/20 08:15	02/26/20 17:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: WGWA-4

Date Collected: 02/04/20 10:45

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-2

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	1.49		0.354	0.369	2.00	0.438	pCi/L		03/04/20 10:54	1

Client Sample ID: WGWA-3

Date Collected: 02/04/20 11:42

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-3

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	0.0576	U	0.0669	0.0671	1.00	0.108	pCi/L	02/10/20 07:45	03/03/20 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					02/10/20 07:45	03/03/20 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	-0.165	U	0.225	0.226	1.00	0.430	pCi/L	02/10/20 08:15	02/26/20 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					02/10/20 08:15	02/26/20 17:24	1
Y Carrier	85.6		40 - 110					02/10/20 08:15	02/26/20 17:24	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.107	U	0.235	0.236	2.00	0.430	pCi/L		03/04/20 10:54	1

Client Sample ID: WGWA-5

Date Collected: 02/04/20 15:17

Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-4

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	0.0982	U	0.0908	0.0912	1.00	0.142	pCi/L	02/10/20 07:45	03/03/20 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					02/10/20 07:45	03/03/20 09:25	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-102004-4

Date Collected: 02/04/20 15:17

Matrix: Water

Date Received: 02/06/20 10:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0995	U	0.259	0.259	1.00	0.446	pCi/L	02/10/20 08:15	02/26/20 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					02/10/20 08:15	02/26/20 17:24	1
Y Carrier	85.6		40 - 110					02/10/20 08:15	02/26/20 17:24	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	0.198	U	0.274	0.275	2.00	0.446	pCi/L		03/04/20 10:54	1

Client Sample ID: WGWA-6

Lab Sample ID: 180-102004-5

Date Collected: 02/04/20 14:55

Matrix: Water

Date Received: 02/06/20 10:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.05		0.317	0.419	1.00	0.0976	pCi/L	02/10/20 07:45	03/03/20 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					02/10/20 07:45	03/03/20 09:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.25		0.547	0.730	1.00	0.429	pCi/L	02/10/20 08:15	02/26/20 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					02/10/20 08:15	02/26/20 17:24	1
Y Carrier	86.0		40 - 110					02/10/20 08:15	02/26/20 17:24	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	8.30		0.632	0.842	2.00	0.429	pCi/L		03/04/20 10:54	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-102004-6

Date Collected: 02/03/20 15:30

Matrix: Water

Date Received: 02/06/20 10:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0685	U	0.0630	0.0633	1.00	0.0934	pCi/L	02/10/20 07:45	03/03/20 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					02/10/20 07:45	03/03/20 09:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.215	U	0.279	0.280	1.00	0.464	pCi/L	02/10/20 08:15	02/26/20 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					02/10/20 08:15	02/26/20 17:24	1
Y Carrier	87.1		40 - 110					02/10/20 08:15	02/26/20 17:24	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	0.283	U	0.286	0.287	2.00	0.464	pCi/L		03/04/20 10:54	1

Client Sample ID: Dup-1

Lab Sample ID: 180-102004-7

Date Collected: 02/04/20 00:00

Matrix: Water

Date Received: 02/06/20 10:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0280	U	0.0480	0.0481	1.00	0.0854	pCi/L	02/10/20 07:45	03/03/20 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					02/10/20 07:45	03/03/20 09:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0189	U	0.200	0.200	1.00	0.357	pCi/L	02/10/20 08:15	02/26/20 17:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					02/10/20 08:15	02/26/20 17:28	1
Y Carrier	84.5		40 - 110					02/10/20 08:15	02/26/20 17:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: Dup-1
Date Collected: 02/04/20 00:00
Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-7
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	0.0469	U	0.206	0.206	2.00	0.357	pCi/L		03/04/20 10:54	1

Client Sample ID: FB-1-2-4-20
Date Collected: 02/04/20 14:30
Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-8
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	-0.0251	U	0.0378	0.0378	1.00	0.101	pCi/L	02/10/20 07:45	03/03/20 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					02/10/20 07:45	03/03/20 09:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0106	U	0.204	0.204	1.00	0.366	pCi/L	02/10/20 08:15	02/26/20 17:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					02/10/20 08:15	02/26/20 17:28	1
Y Carrier	87.1		40 - 110					02/10/20 08:15	02/26/20 17:28	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	-0.0144	U	0.207	0.207	2.00	0.366	pCi/L		03/04/20 10:54	1

Client Sample ID: EB-1-2-4-20
Date Collected: 02/04/20 14:00
Date Received: 02/06/20 10:00

Lab Sample ID: 180-102004-9
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	-0.0116	U	0.0330	0.0330	1.00	0.0858	pCi/L	02/10/20 07:45	03/03/20 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					02/10/20 07:45	03/03/20 09:26	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Client Sample ID: EB-1-2-4-20

Lab Sample ID: 180-102004-9

Date Collected: 02/04/20 14:00

Matrix: Water

Date Received: 02/06/20 10:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.129	U	0.219	0.220	1.00	0.371	pCi/L	02/10/20 08:15	02/26/20 17:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					02/10/20 08:15	02/26/20 17:28	1
Y Carrier	89.0		40 - 110					02/10/20 08:15	02/26/20 17:28	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	0.118	U	0.221	0.222	2.00	0.371	pCi/L		03/04/20 10:54	1



QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-459759/22-A
Matrix: Water
Analysis Batch: 462630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459759

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02040	U	0.0425	0.0425	1.00	0.109	pCi/L	02/10/20 07:45	03/03/20 11:17	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.3		40 - 110			02/10/20 07:45	03/03/20 11:17	1		

Lab Sample ID: LCS 160-459759/1-A
Matrix: Water
Analysis Batch: 462630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 459759

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.33		1.09	1.00	0.0980	pCi/L	91	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	96.6		40 - 110						

Lab Sample ID: LCSD 160-459759/2-A
Matrix: Water
Analysis Batch: 462630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 459759

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	10.29		1.09	1.00	0.0916	pCi/L	91	75 - 125	0.01	1
Carrier	LCSD LCSD		Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	99.1		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-459763/22-A
Matrix: Water
Analysis Batch: 461921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459763

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.002449	U	0.224	0.224	1.00	0.405	pCi/L	02/10/20 08:15	02/26/20 17:30	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.3		40 - 110			02/10/20 08:15	02/26/20 17:30	1		
Y Carrier	88.6		40 - 110			02/10/20 08:15	02/26/20 17:30	1		

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

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

Lab Sample ID: LCS 160-459763/1-A
Matrix: Water
Analysis Batch: 461940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 459763

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.07	7.880		0.963	1.00	0.421	pCi/L	87	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.6		40 - 110
Y Carrier	89.0		40 - 110

Lab Sample ID: LCSD 160-459763/2-A
Matrix: Water
Analysis Batch: 461940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 459763

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.07	7.834		0.956	1.00	0.405	pCi/L	86	75 - 125	0.02	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	99.1		40 - 110
Y Carrier	86.7		40 - 110



QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102004-2

Rad

Prep Batch: 459759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total/NA	Water	PrecSep-21	
180-102004-2	WGWA-4	Total/NA	Water	PrecSep-21	
180-102004-3	WGWA-3	Total/NA	Water	PrecSep-21	
180-102004-4	WGWA-5	Total/NA	Water	PrecSep-21	
180-102004-5	WGWA-6	Total/NA	Water	PrecSep-21	
180-102004-6	WGWA-1	Total/NA	Water	PrecSep-21	
180-102004-7	Dup-1	Total/NA	Water	PrecSep-21	
180-102004-8	FB-1-2-4-20	Total/NA	Water	PrecSep-21	
180-102004-9	EB-1-2-4-20	Total/NA	Water	PrecSep-21	
MB 160-459759/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-459759/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-459759/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

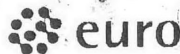
Prep Batch: 459763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102004-1	WGWA-2	Total/NA	Water	PrecSep_0	
180-102004-2	WGWA-4	Total/NA	Water	PrecSep_0	
180-102004-3	WGWA-3	Total/NA	Water	PrecSep_0	
180-102004-4	WGWA-5	Total/NA	Water	PrecSep_0	
180-102004-5	WGWA-6	Total/NA	Water	PrecSep_0	
180-102004-6	WGWA-1	Total/NA	Water	PrecSep_0	
180-102004-7	Dup-1	Total/NA	Water	PrecSep_0	
180-102004-8	FB-1-2-4-20	Total/NA	Water	PrecSep_0	
180-102004-9	EB-1-2-4-20	Total/NA	Water	PrecSep_0	
MB 160-459763/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-459763/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-459763/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information			Sampler: <u>O. Fuquoa/A. Auld</u> Lab PM: <u>Veronica Bortot</u> Client Contact: <u>Joju Abraham</u> Phone: <u>(770) 594-5998</u> E-Mail: <u>(Veronica.Bortot@testamericainc.com)</u> Carrier Tracking No(s): <u>TA-ATL p 21(4)up</u> COC No.: <u>400-72601-28757.1</u> Company: <u>Southern Company</u> Address: <u>PO BOX 2641 GSC8 Birmingham AL, 35291</u> State, Zip: <u>AL, 35291</u> PO #: <u>SCS10347656</u> Project #: <u>40007709</u> SOW#: _____ Email: <u>JAbraham@southernco.com</u> Site: <u>Georgia</u> Project Name: <u>CCR - Plant Wansley - Ash Pond</u>			
Due Date Requested: _____ TAT Requested (days): _____ Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AshNaO2 P - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) _____ Other: _____			Analysis Requested Metals App. IV Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Flouride (SW-846 9315/9320) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Preservation Code:			Total Number of Containers Special			
WGWA-2	2-3-20	1518	G	W	3	
WGWA-4	2-4-20	1045	G	W	3	
WGWA-3	2-4-20	1142	G	W	3	
WGWA-5	2-4-20	1517	G	W	3	
WGWA-6	2-4-20	1455	G	W	3	
WGWA-1	2-3-20	1530	G	W	3	
FB-1-2-4-20	2-4-20	1430	G	W		
FB-1-2-4-20	2-4-20	1400	G	W		
DIP-1	2-4-20		G	W		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify) _____			Special Instructions/QC Requirements: _____			
Empty Kit Relinquished by: _____ Date: _____			Method of Shipment: _____			
Relinquished by: <u>Joju Abraham</u> Date/Time: <u>2-4-20 / 13:45</u> Company: <u>ACC</u>			Received by: <u>Debbie Watson</u> Date/Time: <u>2-5-20</u> Company: <u>B.I.Y.S.</u>			
Relinquished by: _____ Date/Time: _____ Company: _____			Received by: _____ Date/Time: _____ Company: _____			
Relinquished by: _____ Date/Time: _____ Company: _____			Received by: _____ Date/Time: _____ Company: _____			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Cooler Temperature(s) °C and Other Remarks: _____			





02.06
0072

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15:00
1

76 RT esting

39469-434 RIT EXP 07/20



180-102004 Waybill

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 05FEB20
ACTWT: 54.85/LB
CAD: 859116/CAFE3312

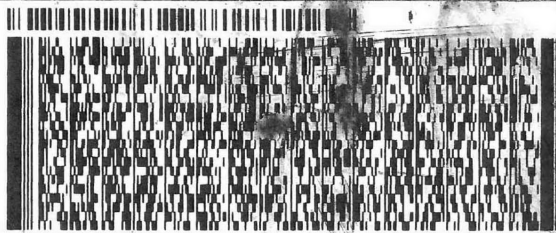
BILL RECIPIENT

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

(412) 963-7068

REF: ACC - PLT WANSLEY

0250/JBPV/C3595



FedEx
Express



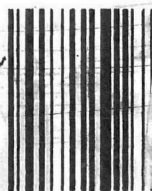
APL00289612161F

1 of 2
TRK# 1516 9323 0072
0201
MASTER

THU - 06 FEB 3:00P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US PIT



Uncorrected temp
Thermometer ID 24 C
10

CF ⊖ Initials JB

PT-WI-SR-001 effective 11/8/18

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



Environment Testing
TestAmerica

Part # 159469-434 RIT EXP 07/20

SHIP TO: ID: LIYA (678) 966-9991
TAYLOR
TESTAMERICA
ENOUGH DRIVE
30093
US

SHIP DATE: 0
ACTWGT: 54.8
CAD: 859116/

BILL RECEIPT

1 A
15:00
0083 90.06
RT 97 FZ

RECEIVING
TESTAMERICA PITTSBURGH
R.

PA 15238



THU - 06 FEB 3:00P
STANDARD OVERNIGHT

01

15238

PA-US PIT

ected temp
er ID

3.8 °C
10

Initials

JB

Effective 11/8/18



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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102004-2

Login Number: 102004

List Number: 1

Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

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?	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: 180-102004-2

Login Number: 102004

List Number: 2

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 02/08/20 11:08 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.	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	21.0
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?	N/A	
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	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-102169-1

Client Project/Site: CCR - Plant Wansley

Sampling Event: Wansley Ash Pond Initial Scan Event

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
2/29/2020 3:38:55 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Job ID: 180-102169-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-102169-1**

Comments

No additional comments.

Receipt

The samples were received on 2/11/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0° C, 3.0° C and 3.8° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWA-18 (180-102169-4). The container labels list WGWA-18, while the COC lists WGWA-8. The client emailed login a new COC with the corrected id of WGWA-18.

GC Semi VOA

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

Metals

Methods 6020A, 6020B: The prep. blank for preparation batch 180-306668 and 180-307560 contained aluminum above the reporting limit (RL). None of the samples associated with this prep. blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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: CCR - Plant Wansley

Job ID: 180-102169-1

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
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)
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: CCR - Plant Wansley

Job ID: 180-102169-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20 *
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-102169-1	WGWA-7	Water	02/05/20 12:33	02/11/20 09:00	
180-102169-2	FB-2-2-7-20	Water	02/07/20 10:20	02/11/20 09:00	
180-102169-3	Dup-2	Water	02/07/20 00:00	02/11/20 09:00	
180-102169-4	WGWA-18	Water	02/05/20 12:05	02/11/20 09:00	
180-102169-5	EB-2-2-7-20	Water	02/07/20 10:10	02/11/20 09:00	
180-102169-6	WGWC-10	Water	02/05/20 11:24	02/11/20 09:00	
180-102169-7	WGWC-12	Water	02/05/20 14:16	02/11/20 09:00	
180-102169-8	WGWC-11	Water	02/05/20 15:07	02/11/20 09:00	
180-102169-9	WGWC-15	Water	02/07/20 10:38	02/11/20 09:00	
180-102169-10	WGWC-16	Water	02/07/20 11:28	02/11/20 09:00	
180-102169-11	WGWC-19	Water	02/07/20 12:19	02/11/20 09:00	
180-102169-12	WGWC-13	Water	02/05/20 13:35	02/11/20 09:00	
180-102169-13	WGWC-14A	Water	02/05/20 14:40	02/11/20 09:00	
180-102169-14	WGWC-9	Water	02/05/20 16:00	02/11/20 09:00	
180-102169-15	WGWC-8	Water	02/07/20 10:35	02/11/20 09:00	
180-102169-16	WGWC-17	Water	02/07/20 12:20	02/11/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

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: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-102169-1

Date Collected: 02/05/20 12:33

Matrix: Water

Date Received: 02/11/20 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			307734	02/21/20 07:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			307853	02/21/20 14:06	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			307328	02/17/20 15:07	NAM	TAL PIT

Client Sample ID: FB-2-2-7-20

Lab Sample ID: 180-102169-2

Date Collected: 02/07/20 10:20

Matrix: Water

Date Received: 02/11/20 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			307633	02/20/20 12:45	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			307853	02/21/20 14:08	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			307328	02/17/20 15:10	NAM	TAL PIT

Client Sample ID: Dup-2

Lab Sample ID: 180-102169-3

Date Collected: 02/07/20 00:00

Matrix: Water

Date Received: 02/11/20 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			307633	02/20/20 13:00	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			307853	02/21/20 14:16	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			307328	02/17/20 15:11	NAM	TAL PIT

Client Sample ID: WGWA-18

Lab Sample ID: 180-102169-4

Date Collected: 02/05/20 12:05

Matrix: Water

Date Received: 02/11/20 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			307733	02/21/20 10:16	MJH	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-102169-4

Date Collected: 02/05/20 12:05

Matrix: Water

Date Received: 02/11/20 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	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:18	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:12	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: EB-2-2-7-20

Lab Sample ID: 180-102169-5

Date Collected: 02/07/20 10:10

Matrix: Water

Date Received: 02/11/20 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			307733	02/21/20 21:40	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:20	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:12	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-10

Lab Sample ID: 180-102169-6

Date Collected: 02/05/20 11:24

Matrix: Water

Date Received: 02/11/20 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			307733	02/21/20 21:55	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:23	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:13	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-12

Lab Sample ID: 180-102169-7

Date Collected: 02/05/20 14:16

Matrix: Water

Date Received: 02/11/20 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			307733	02/21/20 22:10	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:25	RSK	TAL PIT
Instrument ID: NEMO										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-102169-7

Date Collected: 02/05/20 14:16

Matrix: Water

Date Received: 02/11/20 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	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:16	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-11

Lab Sample ID: 180-102169-8

Date Collected: 02/05/20 15:07

Matrix: Water

Date Received: 02/11/20 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			307733	02/21/20 22:25	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:28	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:17	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-15

Lab Sample ID: 180-102169-9

Date Collected: 02/07/20 10:38

Matrix: Water

Date Received: 02/11/20 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			307733	02/21/20 22:40	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:30	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:18	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-16

Lab Sample ID: 180-102169-10

Date Collected: 02/07/20 11:28

Matrix: Water

Date Received: 02/11/20 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			307633	02/20/20 12:04	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:33	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:19	NAM	TAL PIT
Instrument ID: HGZ										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWC-19

Date Collected: 02/07/20 12:19

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			307733	02/21/20 22:55	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:35	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:20	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-13

Date Collected: 02/05/20 13:35

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			307733	02/21/20 23:10	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:38	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:21	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-14A

Date Collected: 02/05/20 14:40

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-13

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			307733	02/21/20 23:25	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:45	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:22	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-9

Date Collected: 02/05/20 16:00

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			307733	02/22/20 00:10	MJH	TAL PIT
Instrument ID: CHICS2000										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-102169-14

Date Collected: 02/05/20 16:00

Matrix: Water

Date Received: 02/11/20 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	307560	02/19/20 14:08	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307853	02/21/20 14:48	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:23	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-8

Lab Sample ID: 180-102169-15

Date Collected: 02/07/20 10:35

Matrix: Water

Date Received: 02/11/20 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			307633	02/20/20 12:19	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307162	02/15/20 06:51	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307402	02/17/20 17:20	WTR	TAL PIT
Instrument ID: M										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:24	NAM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-17

Lab Sample ID: 180-102169-16

Date Collected: 02/07/20 12:20

Matrix: Water

Date Received: 02/11/20 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			307733	02/22/20 00:25	MJH	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	307162	02/15/20 06:51	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			307402	02/17/20 17:25	WTR	TAL PIT
Instrument ID: M										
Total/NA	Prep	7470A			50 mL	50 mL	307130	02/14/20 14:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			307328	02/17/20 15:25	NAM	TAL PIT
Instrument ID: HGZ										

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: CCR - Plant Wansley

Job ID: 180-102169-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

JL = James Lyu

NAM = Nicole Marfisi

Batch Type: Analysis

MJH = Matthew Hartman

NAM = Nicole Marfisi

RSK = Robert Kurtz

WTR = Bill Reinheimer

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-102169-1

Date Collected: 02/05/20 12:33

Matrix: Water

Date Received: 02/11/20 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			02/21/20 07:40	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		02/19/20 14:08	02/21/20 14:06	1
Barium	0.012		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:06	1
Beryllium	0.00041	J	0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:06	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:06	1
Cobalt	0.00021	J	0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:06	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:06	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:06	1
Thallium	0.00026	J	0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:06	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 14:06	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		02/14/20 14:00	02/17/20 15:07	1

Client Sample ID: FB-2-2-7-20

Lab Sample ID: 180-102169-2

Date Collected: 02/07/20 10:20

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.031	J	0.10	0.026	mg/L			02/20/20 12:45	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		02/19/20 14:08	02/21/20 14:08	1
Barium	<0.0016		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:08	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:08	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:08	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:08	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:08	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:08	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 14:08	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		02/14/20 14:00	02/17/20 15:10	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: Dup-2
Date Collected: 02/07/20 00:00
Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.31		0.10	0.026	mg/L			02/20/20 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/19/20 14:08	02/21/20 14:16	1
Barium	<0.0016		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:16	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:16	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:16	1
Cobalt	0.00024	J	0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:16	1
Molybdenum	0.0013	J	0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:16	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:16	1
Lithium	0.044		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 14:16	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		02/14/20 14:00	02/17/20 15:11	1

Client Sample ID: WGWA-18
Date Collected: 02/05/20 12:05
Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.12		0.10	0.026	mg/L			02/21/20 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00058	J	0.0010	0.00031	mg/L		02/19/20 14:08	02/21/20 14:18	1
Barium	0.020		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:18	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:18	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:18	1
Cobalt	0.0027		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:18	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:18	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:18	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 14:18	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		02/14/20 14:00	02/17/20 15:12	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: EB-2-2-7-20

Lab Sample ID: 180-102169-5

Date Collected: 02/07/20 10:10

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.031	J	0.10	0.026	mg/L			02/21/20 21:40	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		02/19/20 14:08	02/21/20 14:20	1
Barium	<0.0016		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:20	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:20	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:20	1
Chromium	0.0016	J	0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:20	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:20	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:20	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:20	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 14:20	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		02/14/20 14:00	02/17/20 15:12	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-102169-6

Date Collected: 02/05/20 11:24

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.14		0.10	0.026	mg/L			02/21/20 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00035	J	0.0010	0.00031	mg/L		02/19/20 14:08	02/21/20 14:23	1
Barium	0.061		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:23	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:23	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:23	1
Chromium	0.0022		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:23	1
Cobalt	0.0013		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:23	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:23	1
Lead	0.00016	J	0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:23	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:23	1
Lithium	0.0061		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 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		02/14/20 14:00	02/17/20 15:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-102169-7

Date Collected: 02/05/20 14:16

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.098	J	0.10	0.026	mg/L			02/21/20 22:10	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		02/19/20 14:08	02/21/20 14:25	1
Barium	0.016		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:25	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:25	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:25	1
Cobalt	0.00058		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:25	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:25	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:25	1
Lithium	0.0063		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 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		02/14/20 14:00	02/17/20 15:16	1

Client Sample ID: WGWC-11

Lab Sample ID: 180-102169-8

Date Collected: 02/05/20 15:07

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.045	J	0.10	0.026	mg/L			02/21/20 22:25	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		02/19/20 14:08	02/21/20 14:28	1
Barium	0.047		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:28	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:28	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:28	1
Cobalt	0.00026	J	0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:28	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:28	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:28	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 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		02/14/20 14:00	02/17/20 15:17	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-102169-9

Date Collected: 02/07/20 10:38

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.79		0.10	0.026	mg/L			02/21/20 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0010		0.0010	0.00031	mg/L		02/19/20 14:08	02/21/20 14:30	1
Barium	0.022		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:30	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:30	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:30	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:30	1
Molybdenum	0.0024	J	0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:30	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:30	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:30	1
Lithium	0.0068		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 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		02/14/20 14:00	02/17/20 15:18	1

Client Sample ID: WGWC-16

Lab Sample ID: 180-102169-10

Date Collected: 02/07/20 11:28

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.072	J	0.10	0.026	mg/L			02/20/20 12:04	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		02/19/20 14:08	02/21/20 14:33	1
Barium	0.034		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:33	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:33	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:33	1
Cobalt	0.00016	J	0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:33	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:33	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:33	1
Selenium	0.0036	J	0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:33	1
Lithium	0.0053		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 14:33	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		02/14/20 14:00	02/17/20 15:19	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-102169-11

Date Collected: 02/07/20 12:19

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.35		0.10	0.026	mg/L			02/21/20 22:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/19/20 14:08	02/21/20 14:35	1
Barium	0.0065	J	0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:35	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:35	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:35	1
Cobalt	0.00024	J	0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:35	1
Molybdenum	0.0014	J	0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:35	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:35	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:35	1
Lithium	0.044		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 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		02/14/20 14:00	02/17/20 15:20	1

Client Sample ID: WGWC-13

Lab Sample ID: 180-102169-12

Date Collected: 02/05/20 13:35

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.20		0.10	0.026	mg/L			02/21/20 23:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00048	J	0.0010	0.00031	mg/L		02/19/20 14:08	02/21/20 14:38	1
Barium	0.052		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:38	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:38	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:38	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:38	1
Molybdenum	0.0012	J	0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:38	1
Lead	0.00045	J	0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:38	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:38	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 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		02/14/20 14:00	02/17/20 15:21	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-102169-13

Date Collected: 02/05/20 14:40

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.040	J	0.10	0.026	mg/L			02/21/20 23:25	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		02/19/20 14:08	02/21/20 14:45	1
Barium	0.077		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:45	1
Beryllium	0.00024	J	0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:45	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:45	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:45	1
Cobalt	0.0044		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:45	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:45	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:45	1
Thallium	0.00022	J	0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 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		02/14/20 14:00	02/17/20 15:22	1

Client Sample ID: WGWC-9

Lab Sample ID: 180-102169-14

Date Collected: 02/05/20 16:00

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.3		0.10	0.026	mg/L			02/22/20 00:10	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		02/19/20 14:08	02/21/20 14:48	1
Barium	0.0022	J	0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 14:48	1
Beryllium	0.00040	J	0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 14:48	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 14:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 14:48	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 14:48	1
Molybdenum	0.0044	J	0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 14:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 14:48	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 14:48	1
Selenium	0.0033	J	0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 14:48	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 14:48	1
Lithium	0.034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 14:48	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		02/14/20 14:00	02/17/20 15:23	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-102169-15

Date Collected: 02/07/20 10:35

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.25		0.10	0.026	mg/L			02/20/20 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010	0.00031	mg/L		02/15/20 06:51	02/17/20 17:20	1
Barium	<0.0016		0.010	0.0016	mg/L		02/15/20 06:51	02/17/20 17:20	1
Beryllium	0.0023		0.0010	0.00018	mg/L		02/15/20 06:51	02/17/20 17:20	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/15/20 06:51	02/17/20 17:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/15/20 06:51	02/17/20 17:20	1
Cobalt	0.0011		0.00050	0.00013	mg/L		02/15/20 06:51	02/17/20 17:20	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/15/20 06:51	02/17/20 17:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/15/20 06:51	02/17/20 17:20	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/15/20 06:51	02/17/20 17:20	1
Selenium	0.0048	J	0.0050	0.0015	mg/L		02/15/20 06:51	02/17/20 17:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/15/20 06:51	02/17/20 17:20	1
Lithium	0.014		0.0050	0.0034	mg/L		02/15/20 06:51	02/17/20 17:20	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		02/14/20 14:00	02/17/20 15:24	1

Client Sample ID: WGWC-17

Lab Sample ID: 180-102169-16

Date Collected: 02/07/20 12:20

Matrix: Water

Date Received: 02/11/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.079	J	0.10	0.026	mg/L			02/22/20 00:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00075	J	0.0010	0.00031	mg/L		02/15/20 06:51	02/17/20 17:25	1
Barium	0.011		0.010	0.0016	mg/L		02/15/20 06:51	02/17/20 17:25	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/15/20 06:51	02/17/20 17:25	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/15/20 06:51	02/17/20 17:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/15/20 06:51	02/17/20 17:25	1
Cobalt	0.00077		0.00050	0.00013	mg/L		02/15/20 06:51	02/17/20 17:25	1
Molybdenum	0.0025	J	0.0050	0.00061	mg/L		02/15/20 06:51	02/17/20 17:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/15/20 06:51	02/17/20 17:25	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/15/20 06:51	02/17/20 17:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/15/20 06:51	02/17/20 17:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/15/20 06:51	02/17/20 17:25	1
Lithium	0.0045	J	0.0050	0.0034	mg/L		02/15/20 06:51	02/17/20 17:25	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		02/14/20 14:00	02/17/20 15:25	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

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

Lab Sample ID: MB 180-307633/6
Matrix: Water
Analysis Batch: 307633

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			02/20/20 10:35	1

Lab Sample ID: LCS 180-307633/5
Matrix: Water
Analysis Batch: 307633

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	2.47		mg/L		99	90 - 110

Lab Sample ID: LB1 180-307769/1-A
Matrix: Water
Analysis Batch: 307733

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

Analyte	LB1 Result	LB1 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.26		1.0	0.26	mg/L			02/21/20 12:26	1

Lab Sample ID: MB 180-307733/6
Matrix: Water
Analysis Batch: 307733

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			02/21/20 06:51	1

Lab Sample ID: LCS 180-307733/5
Matrix: Water
Analysis Batch: 307733

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	2.52		mg/L		101	90 - 110

Lab Sample ID: 180-102169-4 MS
Matrix: Water
Analysis Batch: 307733

Client Sample ID: WGWA-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.12		1.25	1.41		mg/L		103	80 - 120

Lab Sample ID: 180-102169-4 MSD
Matrix: Water
Analysis Batch: 307733

Client Sample ID: WGWA-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.12		1.25	1.40		mg/L					

Lab Sample ID: MB 180-307734/6
Matrix: Water
Analysis Batch: 307734

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			02/21/20 05:34	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

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

Lab Sample ID: LCS 180-307734/5
Matrix: Water
Analysis Batch: 307734

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	2.54		mg/L		102	90 - 110

Lab Sample ID: 180-102169-1 MS
Matrix: Water
Analysis Batch: 307734

Client Sample ID: WGWA-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.026	J	1.25	1.28		mg/L		100	80 - 120

Lab Sample ID: 180-102169-1 MSD
Matrix: Water
Analysis Batch: 307734

Client Sample ID: WGWA-7
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	J	1.25	1.23		mg/L		96	80 - 120	4	20

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

Lab Sample ID: MB 180-307162/1-A
Matrix: Water
Analysis Batch: 307402

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 307162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/15/20 06:50	02/17/20 14:50	1
Barium	<0.0016		0.010	0.0016	mg/L		02/15/20 06:50	02/17/20 14:50	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/15/20 06:50	02/17/20 14:50	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/15/20 06:50	02/17/20 14:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/15/20 06:50	02/17/20 14:50	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/15/20 06:50	02/17/20 14:50	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/15/20 06:50	02/17/20 14:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/15/20 06:50	02/17/20 14:50	1
Antimony	0.000384	J	0.0020	0.00038	mg/L		02/15/20 06:50	02/17/20 14:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/15/20 06:50	02/17/20 14:50	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/15/20 06:50	02/17/20 14:50	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/15/20 06:50	02/17/20 14:50	1

Lab Sample ID: LCS 180-307162/2-A
Matrix: Water
Analysis Batch: 307402

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 307162

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	0.474		mg/L		95	80 - 120
Cadmium	0.500	0.536		mg/L		107	80 - 120
Chromium	0.500	0.516		mg/L		103	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Molybdenum	0.500	0.530		mg/L		106	80 - 120
Lead	0.500	0.514		mg/L		103	80 - 120
Antimony	0.250	0.231		mg/L		92	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

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

Lab Sample ID: LCS 180-307162/2-A
Matrix: Water
Analysis Batch: 307402

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 307162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1.00	0.953		mg/L		95	80 - 120
Thallium	1.00	0.978		mg/L		98	80 - 120
Lithium	0.500	0.467		mg/L		93	80 - 120

Lab Sample ID: MB 180-307560/1-A
Matrix: Water
Analysis Batch: 307853

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 307560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/19/20 14:08	02/21/20 13:34	1
Barium	<0.0016		0.010	0.0016	mg/L		02/19/20 14:08	02/21/20 13:34	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		02/19/20 14:08	02/21/20 13:34	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		02/19/20 14:08	02/21/20 13:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/19/20 14:08	02/21/20 13:34	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		02/19/20 14:08	02/21/20 13:34	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		02/19/20 14:08	02/21/20 13:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/19/20 14:08	02/21/20 13:34	1
Antimony	<0.00038		0.0020	0.00038	mg/L		02/19/20 14:08	02/21/20 13:34	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/19/20 14:08	02/21/20 13:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/19/20 14:08	02/21/20 13:34	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/19/20 14:08	02/21/20 13:34	1

Lab Sample ID: LCS 180-306668/2-I
Matrix: Water
Analysis Batch: 307853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 307560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.03		mg/L		103	80 - 120
Barium	1.00	0.956		mg/L		96	80 - 120
Beryllium	0.500	0.523		mg/L		105	80 - 120
Cadmium	0.500	0.505		mg/L		101	80 - 120
Chromium	0.500	0.506		mg/L		101	80 - 120
Cobalt	0.500	0.517		mg/L		103	80 - 120
Molybdenum	0.500	0.469		mg/L		94	80 - 120
Lead	0.500	0.488		mg/L		98	80 - 120
Antimony	0.250	0.236		mg/L		94	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Lithium	0.500	0.422		mg/L		84	80 - 120

Lab Sample ID: LCS 180-307560/2-A
Matrix: Water
Analysis Batch: 307853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 307560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.541		mg/L		108	80 - 120
Cadmium	0.500	0.538		mg/L		108	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

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

Lab Sample ID: LCS 180-307560/2-A
Matrix: Water
Analysis Batch: 307853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 307560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.500	0.530		mg/L		106	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Molybdenum	0.500	0.488		mg/L		98	80 - 120
Lead	0.500	0.512		mg/L		102	80 - 120
Antimony	0.250	0.235		mg/L		94	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120
Lithium	0.500	0.464		mg/L		93	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-307130/1-A
Matrix: Water
Analysis Batch: 307328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		02/14/20 14:00	02/17/20 15:05	1

Lab Sample ID: LCS 180-307130/2-A
Matrix: Water
Analysis Batch: 307328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00246		mg/L		98	80 - 120

Lab Sample ID: 180-102169-1 MS
Matrix: Water
Analysis Batch: 307328

Client Sample ID: WGWA-7
Prep Type: Total/NA
Prep Batch: 307130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00010		0.00100	0.00105		mg/L		105	75 - 125

Lab Sample ID: 180-102169-1 MSD
Matrix: Water
Analysis Batch: 307328

Client Sample ID: WGWA-7
Prep Type: Total/NA
Prep Batch: 307130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00010		0.00100	0.00101		mg/L		101	75 - 125	4	20

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

HPLC/IC

Analysis Batch: 307633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-2	FB-2-2-7-20	Total/NA	Water	EPA 300.0 R2.1	
180-102169-3	Dup-2	Total/NA	Water	EPA 300.0 R2.1	
180-102169-10	WGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-102169-15	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
MB 180-307633/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-307633/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 307733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-4	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-102169-5	EB-2-2-7-20	Total/NA	Water	EPA 300.0 R2.1	
180-102169-6	WGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-102169-7	WGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-102169-8	WGWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-102169-9	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-102169-11	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-102169-12	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-102169-13	WGWC-14A	Total/NA	Water	EPA 300.0 R2.1	
180-102169-14	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-102169-16	WGWC-17	Total/NA	Water	EPA 300.0 R2.1	
LB1 180-307769/1-A	Method Blank	Total/NA	Water	EPA 300.0 R2.1	307769
MB 180-307733/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-307733/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102169-4 MS	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-102169-4 MSD	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 307734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-1	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	
MB 180-307734/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-307734/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-102169-1 MS	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	
180-102169-1 MSD	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	

Leach Batch: 307769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB1 180-307769/1-A	Method Blank	Total/NA	Water	DI Leach	

Metals

Filtration Batch: 306668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-306668/2-I	Lab Control Sample	Total Recoverable	Water	Filtration	

Prep Batch: 307130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-1	WGWA-7	Total/NA	Water	7470A	
180-102169-2	FB-2-2-7-20	Total/NA	Water	7470A	
180-102169-3	Dup-2	Total/NA	Water	7470A	
180-102169-4	WGWA-18	Total/NA	Water	7470A	
180-102169-5	EB-2-2-7-20	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Metals (Continued)

Prep Batch: 307130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-6	WGWC-10	Total/NA	Water	7470A	
180-102169-7	WGWC-12	Total/NA	Water	7470A	
180-102169-8	WGWC-11	Total/NA	Water	7470A	
180-102169-9	WGWC-15	Total/NA	Water	7470A	
180-102169-10	WGWC-16	Total/NA	Water	7470A	
180-102169-11	WGWC-19	Total/NA	Water	7470A	
180-102169-12	WGWC-13	Total/NA	Water	7470A	
180-102169-13	WGWC-14A	Total/NA	Water	7470A	
180-102169-14	WGWC-9	Total/NA	Water	7470A	
180-102169-15	WGWC-8	Total/NA	Water	7470A	
180-102169-16	WGWC-17	Total/NA	Water	7470A	
MB 180-307130/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-307130/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-102169-1 MS	WGWA-7	Total/NA	Water	7470A	
180-102169-1 MSD	WGWA-7	Total/NA	Water	7470A	

Prep Batch: 307162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-15	WGWC-8	Total Recoverable	Water	3005A	
180-102169-16	WGWC-17	Total Recoverable	Water	3005A	
MB 180-307162/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-307162/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 307328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-1	WGWA-7	Total/NA	Water	EPA 7470A	307130
180-102169-2	FB-2-2-7-20	Total/NA	Water	EPA 7470A	307130
180-102169-3	Dup-2	Total/NA	Water	EPA 7470A	307130
180-102169-4	WGWA-18	Total/NA	Water	EPA 7470A	307130
180-102169-5	EB-2-2-7-20	Total/NA	Water	EPA 7470A	307130
180-102169-6	WGWC-10	Total/NA	Water	EPA 7470A	307130
180-102169-7	WGWC-12	Total/NA	Water	EPA 7470A	307130
180-102169-8	WGWC-11	Total/NA	Water	EPA 7470A	307130
180-102169-9	WGWC-15	Total/NA	Water	EPA 7470A	307130
180-102169-10	WGWC-16	Total/NA	Water	EPA 7470A	307130
180-102169-11	WGWC-19	Total/NA	Water	EPA 7470A	307130
180-102169-12	WGWC-13	Total/NA	Water	EPA 7470A	307130
180-102169-13	WGWC-14A	Total/NA	Water	EPA 7470A	307130
180-102169-14	WGWC-9	Total/NA	Water	EPA 7470A	307130
180-102169-15	WGWC-8	Total/NA	Water	EPA 7470A	307130
180-102169-16	WGWC-17	Total/NA	Water	EPA 7470A	307130
MB 180-307130/1-A	Method Blank	Total/NA	Water	EPA 7470A	307130
LCS 180-307130/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	307130
180-102169-1 MS	WGWA-7	Total/NA	Water	EPA 7470A	307130
180-102169-1 MSD	WGWA-7	Total/NA	Water	EPA 7470A	307130

Analysis Batch: 307402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-15	WGWC-8	Total Recoverable	Water	EPA 6020B	307162
180-102169-16	WGWC-17	Total Recoverable	Water	EPA 6020B	307162
MB 180-307162/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	307162

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-1

Metals (Continued)

Analysis Batch: 307402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-307162/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	307162


Prep Batch: 307560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-1	WGWA-7	Total Recoverable	Water	3005A	
180-102169-2	FB-2-2-7-20	Total Recoverable	Water	3005A	
180-102169-3	Dup-2	Total Recoverable	Water	3005A	
180-102169-4	WGWA-18	Total Recoverable	Water	3005A	
180-102169-5	EB-2-2-7-20	Total Recoverable	Water	3005A	
180-102169-6	WGWC-10	Total Recoverable	Water	3005A	
180-102169-7	WGWC-12	Total Recoverable	Water	3005A	
180-102169-8	WGWC-11	Total Recoverable	Water	3005A	
180-102169-9	WGWC-15	Total Recoverable	Water	3005A	
180-102169-10	WGWC-16	Total Recoverable	Water	3005A	
180-102169-11	WGWC-19	Total Recoverable	Water	3005A	
180-102169-12	WGWC-13	Total Recoverable	Water	3005A	
180-102169-13	WGWC-14A	Total Recoverable	Water	3005A	
180-102169-14	WGWC-9	Total Recoverable	Water	3005A	
MB 180-307560/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-306668/2-I	Lab Control Sample	Total Recoverable	Water	3005A	306668
LCS 180-307560/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 307853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-1	WGWA-7	Total Recoverable	Water	EPA 6020B	307560
180-102169-2	FB-2-2-7-20	Total Recoverable	Water	EPA 6020B	307560
180-102169-3	Dup-2	Total Recoverable	Water	EPA 6020B	307560
180-102169-4	WGWA-18	Total Recoverable	Water	EPA 6020B	307560
180-102169-5	EB-2-2-7-20	Total Recoverable	Water	EPA 6020B	307560
180-102169-6	WGWC-10	Total Recoverable	Water	EPA 6020B	307560
180-102169-7	WGWC-12	Total Recoverable	Water	EPA 6020B	307560
180-102169-8	WGWC-11	Total Recoverable	Water	EPA 6020B	307560
180-102169-9	WGWC-15	Total Recoverable	Water	EPA 6020B	307560
180-102169-10	WGWC-16	Total Recoverable	Water	EPA 6020B	307560
180-102169-11	WGWC-19	Total Recoverable	Water	EPA 6020B	307560
180-102169-12	WGWC-13	Total Recoverable	Water	EPA 6020B	307560
180-102169-13	WGWC-14A	Total Recoverable	Water	EPA 6020B	307560
180-102169-14	WGWC-9	Total Recoverable	Water	EPA 6020B	307560
MB 180-307560/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	307560
LCS 180-306668/2-I	Lab Control Sample	Total Recoverable	Water	EPA 6020B	307560
LCS 180-307560/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	307560

Chain of Custody Record

Client Information Client Contact: Joji Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: _____ Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Lab PM: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)		Sampler: O. Fuquka Phone: (770) 594-5998		Carrier Tracking No(s): 400-72601-28757.1 Page: _____ Job #: _____	
Due Date Requested: _____ TAT Requested (days): _____ PO #: _____ SCS: 10347656 WO #: _____ Project #: 40007709 SSOW #: _____		Analysis Requested  180-102169 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Total Number of contain: _____ Special Instructions/Note: _____	
Sample Identification WGWC-10 WGWA-7 WGW-12 WGW-11 WGW-15 WGW-16 WGW-19 FB-2-2-7-20 DUP-2		Sample Date: _____ Sample Time: _____ Sample Type (C=Comp, G=grab): _____ Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=air): _____ Preservation Code: _____		Field Filtered Sample (Yes or No): _____ Perform MS/MSD (Yes or No): _____ Metals App. IV: _____ Fluoride (SW-846 9315/9320): _____ Radium 226 & 228: _____		Special Instructions/Note: _____ 681-Atlanta 66 i-Atlanta	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab _____ Months		Special Instructions/QC Requirements: _____		Method of Shipment: _____	
Empty Kit Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Date: _____ Date/Time: 2/10/20 13:00 Date/Time: 2/11/20 16:00 Date/Time: 9:00		Received by: _____ Received by: _____ Received by: _____ Cooler Temperature(s) °C and Other Remarks: _____		Company: ARC Company: BPA Company: EFA/AT	



Client Information Client Contact: Joju Abraham Phone: (770) 594-5998 E-Mail: (Veronica.Bortot@testamericainc.com)		Lab PM: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)		Carrier Tracking No(s): COC No: 400-72601-28757.1	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSOW#:		Analysis Requested			
Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Sample Identification WGWA-8 WGWL-13 WGWL-14A WGWL-9 EB-2-2-7-20 WGWL-8 WGWL-17		Sample Date 2-5-20 2-5-20 2-5-20 2-5-20 2-7-20 2-7-20 2-7-20		Sample Time 1705 1335 1440 1400 1010 1035 1220	
Sample Type (C=Comp, G=grab) Preservation Code: Matrix (W=water, S=solid, O=wasteoil, BT=tissue, A=Air)		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App. IV Fluoride (SW-846 9315/9320) Radium 226 & 228			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by:		Date/Time: 2/10/20 13:00		Received by: [Signature]	
Relinquished by:		Date/Time: 2/10/20 16:00		Received by: [Signature]	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



TestAmerica Pittsburgh
 301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



180-102169-02 Chain of Custody

TestAmerica
 LABORATORY ENVIRONMENTAL TESTING

Client Information
 Client Contact: Veronica Bortot
 Joju Abraham
 Southern Company
 Address: PO BOX 2641 GSC8
 Birmingham
 State, Zip: AL, 35291
 Phone:
 Email: JAbraham@southernco.com
 Project Name: GCR - Plant Wansley - Ash Pond
 Site: Georgia

Lab Pkt: Veronica Bortot
 E-Mail: (Veronica.Bortot@testamericainc.com)

Sampler: H. Auld
 Phone: (770) 594-5998

Job #: 400-72601-28757.1
 Page:
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Overstool, B=Biological, A=Air)	Field Filtered Sample (Yes or No)	Formaldehyde (Yes or No)	Metals App. IV	Fluoride	Radium 226 & 228 (SW-846 93169320)	Analysis Requested		Special Instructions/Note:
										Total Number of Containers		
WGWA-8	2-5-20	1705	G	W	N	N	N	N	N	3		
WGW-13	2-5-20	1335	G	W	N	N	N	N	N	4		
WGW-14A	2-5-20	1440	G	W	N	N	N	N	N	3		
WGW-9	2-5-20	1600	G	W	N	N	N	N	N	3		
EB-2-2-7-20	2-7-20	1010	G	W	N	N	N	N	N	3		604-Atlanta
WGW-8	2-7-20	1035	G	W	N	N	N	N	N	3		
WGW-17	2-7-20	1220	G	W	N	N	N	N	N	3		

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 2/10/20 13:00 Company: APC

Relinquished by: _____ Date/Time: 2/10/20 16:00 Company: EPA

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____
 Δ Yes Δ No

Special Instructions/OC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months

Method of Shipment: _____

Received by: _____ Date/Time: 2/10/20 13:00 Company: EPA

Received by: _____ Date/Time: 2-11-20 9:00 Company: EPA

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: 2-11-20 9:00 EPA





180-102169 Waybill

eurofins

**Environment Testing
TestAmerica**

Part # 159458-434 FITT EXP 07/20

ORIGIN IDALIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 WINDYHURST DRIVE
SUITE 110
DUNWOODY GA 30093
UNITED STATES US

SHIP DATE: 10FEB20
ACTWGT: 55.80 LB
CAD: 859116/CAFE3312

BILL RECIPIENT

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

REF: ACC - PLT WANSLEY



**FedEx
Express**



2 of 3
MPS# 1516 9323 0175
Mstr# 1516 9323 0164

**TUE - 11 FEB 3:00P
STANDARD OVERNIGHT**

AGCA

15238
PA-US PIT

Corrected temp _____
Thermometer ID 310

Initials JB

L-SR-001 effective 11/8/18



1
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13

Loc: 180
100986



Environment Testing
TestAmerica

15:00 A
0164
07/11

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

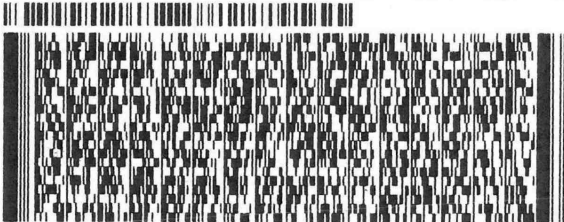
SHIP DATE: 10FEB20
ACTWGT: 55.80 LB
CAD: 859116/CAFE3312

BILL RECIPIENT

0350/4890/2/5355

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

(412) 963-7068
REF: ACC - PLT WANSLEY



FedEx
Express



1 of 3

TRK# 1516 9323 0164

MASTER

TUE - 11 FEB 3:00P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US PIT

Uncorrected temp Thermometer ID

318
10 C

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18

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3.0
CFE=0
#10

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102169-1

Login Number: 102169

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?	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	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-102169-2

Client Project/Site: CCR - Plant Wansley

Sampling Event: Wansley Ash Pond Initial Scan Event

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
3/11/2020 4:42:55 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Job ID: 180-102169-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-102169-2

Comments

No additional comments.

Receipt

The samples were received on 2/11/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0° C, 3.0° C and 3.8° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWA-18 (180-102169-4). The container labels list WGWA-18, while the COC lists WGWA-8. The client emailed login a new COC with the corrected id of WGWA-18.

RAD

Methods 903.0, 9315: Radium-226 Prep Batch 160-460626

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.

WGWA-7 (180-102169-1), FB-2-2-7-20 (180-102169-2), Dup-2 (180-102169-3), WGWA-18 (180-102169-4), EB-2-2-7-20 (180-102169-5), WGWC-10 (180-102169-6), WGWC-12 (180-102169-7), WGWC-11 (180-102169-8), WGWC-15 (180-102169-9), WGWC-16 (180-102169-10), WGWC-19 (180-102169-11), WGWC-13 (180-102169-12), WGWC-14A (180-102169-13), WGWC-9 (180-102169-14), WGWC-8 (180-102169-15), WGWC-17 (180-102169-16), (LCS 160-460626/1-A), (LCSD 160-460626/2-A) and (MB 160-460626/24-A)

Methods 904.0, 9320: Radium-228 Prep Batch 160-460632

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.

WGWA-7 (180-102169-1), FB-2-2-7-20 (180-102169-2), Dup-2 (180-102169-3), WGWA-18 (180-102169-4), EB-2-2-7-20 (180-102169-5), WGWC-10 (180-102169-6), WGWC-12 (180-102169-7), WGWC-11 (180-102169-8), WGWC-15 (180-102169-9), WGWC-16 (180-102169-10), WGWC-19 (180-102169-11), WGWC-13 (180-102169-12), WGWC-14A (180-102169-13), WGWC-9 (180-102169-14), WGWC-8 (180-102169-15), WGWC-17 (180-102169-16), (LCS 160-460632/1-A), (LCSD 160-460632/2-A) and (MB 160-460632/24-A)

Method PrecSep_0: Radium 228 Prep Batch 160-460632:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-7 (180-102169-1), FB-2-2-7-20 (180-102169-2), Dup-2 (180-102169-3), WGWA-18 (180-102169-4), EB-2-2-7-20 (180-102169-5), WGWC-10 (180-102169-6), WGWC-12 (180-102169-7), WGWC-11 (180-102169-8), WGWC-15 (180-102169-9), WGWC-16 (180-102169-10), WGWC-19 (180-102169-11), WGWC-13 (180-102169-12), WGWC-14A (180-102169-13), WGWC-9 (180-102169-14), WGWC-8 (180-102169-15) and WGWC-17 (180-102169-16). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 prep Batch 160-460626:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-7 (180-102169-1), FB-2-2-7-20 (180-102169-2), Dup-2 (180-102169-3), WGWA-18 (180-102169-4), EB-2-2-7-20 (180-102169-5), WGWC-10 (180-102169-6), WGWC-12 (180-102169-7), WGWC-11 (180-102169-8), WGWC-15 (180-102169-9), WGWC-16 (180-102169-10), WGWC-19 (180-102169-11), WGWC-13 (180-102169-12), WGWC-14A (180-102169-13), WGWC-9 (180-102169-14), WGWC-8 (180-102169-15) and WGWC-17

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Job ID: 180-102169-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

(180-102169-16). 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: CCR - Plant Wansley

Job ID: 180-102169-2

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.
▫	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: CCR - Plant Wansley

Job ID: 180-102169-2

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20 *
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-102169-1	WGWA-7	Water	02/05/20 12:33	02/11/20 09:00	
180-102169-2	FB-2-2-7-20	Water	02/07/20 10:20	02/11/20 09:00	
180-102169-3	Dup-2	Water	02/07/20 00:00	02/11/20 09:00	
180-102169-4	WGWA-18	Water	02/05/20 12:05	02/11/20 09:00	
180-102169-5	EB-2-2-7-20	Water	02/07/20 10:10	02/11/20 09:00	
180-102169-6	WGWC-10	Water	02/05/20 11:24	02/11/20 09:00	
180-102169-7	WGWC-12	Water	02/05/20 14:16	02/11/20 09:00	
180-102169-8	WGWC-11	Water	02/05/20 15:07	02/11/20 09:00	
180-102169-9	WGWC-15	Water	02/07/20 10:38	02/11/20 09:00	
180-102169-10	WGWC-16	Water	02/07/20 11:28	02/11/20 09:00	
180-102169-11	WGWC-19	Water	02/07/20 12:19	02/11/20 09:00	
180-102169-12	WGWC-13	Water	02/05/20 13:35	02/11/20 09:00	
180-102169-13	WGWC-14A	Water	02/05/20 14:40	02/11/20 09:00	
180-102169-14	WGWC-9	Water	02/05/20 16:00	02/11/20 09:00	
180-102169-15	WGWC-8	Water	02/07/20 10:35	02/11/20 09:00	
180-102169-16	WGWC-17	Water	02/07/20 12:20	02/11/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

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: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-102169-1

Date Collected: 02/05/20 12:33

Matrix: Water

Date Received: 02/11/20 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			1000.41 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 13:54	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.41 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463178	03/04/20 18:15	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2-2-7-20

Lab Sample ID: 180-102169-2

Date Collected: 02/07/20 10:20

Matrix: Water

Date Received: 02/11/20 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	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 13:54	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.56 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463178	03/04/20 18:15	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-102169-3

Date Collected: 02/07/20 00:00

Matrix: Water

Date Received: 02/11/20 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			1000.40 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:54	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.40 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463178	03/04/20 18:15	KLS	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-18

Lab Sample ID: 180-102169-4

Date Collected: 02/05/20 12:05

Matrix: Water

Date Received: 02/11/20 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			1000.30 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:54	AJD	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-102169-4

Date Collected: 02/05/20 12:05

Matrix: Water

Date Received: 02/11/20 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			1000.30 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:18	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2-2-7-20

Lab Sample ID: 180-102169-5

Date Collected: 02/07/20 10:10

Matrix: Water

Date Received: 02/11/20 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			1000.76 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:54	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.76 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:18	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-102169-6

Date Collected: 02/05/20 11:24

Matrix: Water

Date Received: 02/11/20 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			1000.72 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:54	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.72 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:18	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 180-102169-7

Date Collected: 02/05/20 14:16

Matrix: Water

Date Received: 02/11/20 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			1000.51 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:54	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.51 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:19	KLS	TAL SL
Instrument ID: GFPCORANGE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-102169-7

Date Collected: 02/05/20 14:16

Matrix: Water

Date Received: 02/11/20 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			463806	03/11/20 08:03	SMP	TAL SL

Client Sample ID: WGWC-11

Lab Sample ID: 180-102169-8

Date Collected: 02/05/20 15:07

Matrix: Water

Date Received: 02/11/20 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			1000.17 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:55	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:19	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-102169-9

Date Collected: 02/07/20 10:38

Matrix: Water

Date Received: 02/11/20 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			1000.50 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:55	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.50 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:19	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-102169-10

Date Collected: 02/07/20 11:28

Matrix: Water

Date Received: 02/11/20 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			1000.80 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:55	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.80 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:19	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-19

Date Collected: 02/07/20 12:19

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.62 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:55	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:19	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Date Collected: 02/05/20 13:35

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.77 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:55	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.77 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:19	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Date Collected: 02/05/20 14:40

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-13

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			1000.16 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:55	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.16 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:20	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Date Collected: 02/05/20 16:00

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.71 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:55	AJD	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-9

Date Collected: 02/05/20 16:00

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.71 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:20	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Date Collected: 02/07/20 10:35

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.31 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:55	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.31 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:20	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Date Collected: 02/07/20 12:20

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.48 mL	1.0 g	460626	02/17/20 12:15	RBR	TAL SL
Total/NA	Analysis	9315		1			463594	03/10/20 15:56	AJD	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.48 mL	1.0 g	460632	02/17/20 13:01	RBR	TAL SL
Total/NA	Analysis	9320		1			463111	03/04/20 18:20	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			463806	03/11/20 08:03	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

RBR = Rachael Ratcliff

Batch Type: Analysis

AJD = Audra DeMariano

KLS = Kody Saulters

SMP = Siobhan Perry

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-102169-1

Date Collected: 02/05/20 12:33

Matrix: Water

Date Received: 02/11/20 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	-0.0239	U	0.0649	0.0649	1.00	0.143	pCi/L	02/17/20 12:15	03/10/20 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					02/17/20 12:15	03/10/20 13:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00240	U	0.265	0.265	1.00	0.473	pCi/L	02/17/20 13:01	03/04/20 18:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					02/17/20 13:01	03/04/20 18:15	1
Y Carrier	86.4		40 - 110					02/17/20 13:01	03/04/20 18:15	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	-0.0263	U	0.273	0.273	2.00	0.473	pCi/L		03/11/20 08:03	1

Client Sample ID: FB-2-2-7-20

Lab Sample ID: 180-102169-2

Date Collected: 02/07/20 10:20

Matrix: Water

Date Received: 02/11/20 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	0.0648	U	0.0831	0.0833	1.00	0.138	pCi/L	02/17/20 12:15	03/10/20 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					02/17/20 12:15	03/10/20 13:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.201	U	0.244	0.244	1.00	0.403	pCi/L	02/17/20 13:01	03/04/20 18:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					02/17/20 13:01	03/04/20 18:15	1
Y Carrier	86.7		40 - 110					02/17/20 13:01	03/04/20 18:15	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: FB-2-2-7-20

Lab Sample ID: 180-102169-2

Date Collected: 02/07/20 10:20

Matrix: Water

Date Received: 02/11/20 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	0.266	U	0.258	0.258	2.00	0.403	pCi/L		03/11/20 08:03	1

Client Sample ID: Dup-2

Lab Sample ID: 180-102169-3

Date Collected: 02/07/20 00:00

Matrix: Water

Date Received: 02/11/20 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	0.0361	U	0.0548	0.0549	1.00	0.0947	pCi/L	02/17/20 12:15	03/10/20 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					02/17/20 12:15	03/10/20 15:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.378	U	0.279	0.281	1.00	0.439	pCi/L	02/17/20 13:01	03/04/20 18:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					02/17/20 13:01	03/04/20 18:15	1
Y Carrier	87.9		40 - 110					02/17/20 13:01	03/04/20 18:15	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	0.284	0.286	2.00	0.439	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWA-18

Lab Sample ID: 180-102169-4

Date Collected: 02/05/20 12:05

Matrix: Water

Date Received: 02/11/20 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	0.122	U	0.0898	0.0905	1.00	0.130	pCi/L	02/17/20 12:15	03/10/20 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					02/17/20 12:15	03/10/20 15:54	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-102169-4

Date Collected: 02/05/20 12:05

Matrix: Water

Date Received: 02/11/20 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	0.206	U	0.227	0.228	1.00	0.372	pCi/L	02/17/20 13:01	03/04/20 18:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					02/17/20 13:01	03/04/20 18:18	1
Y Carrier	88.6		40 - 110					02/17/20 13:01	03/04/20 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	0.327	U	0.244	0.245	2.00	0.372	pCi/L		03/11/20 08:03	1

Client Sample ID: EB-2-2-7-20

Lab Sample ID: 180-102169-5

Date Collected: 02/07/20 10:10

Matrix: Water

Date Received: 02/11/20 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	-0.00728	U	0.0589	0.0589	1.00	0.124	pCi/L	02/17/20 12:15	03/10/20 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					02/17/20 12:15	03/10/20 15:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.298	U	0.248	0.250	1.00	0.395	pCi/L	02/17/20 13:01	03/04/20 18:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					02/17/20 13:01	03/04/20 18:18	1
Y Carrier	86.0		40 - 110					02/17/20 13:01	03/04/20 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	0.291	U	0.255	0.257	2.00	0.395	pCi/L		03/11/20 08:03	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-102169-6

Date Collected: 02/05/20 11:24

Matrix: Water

Date Received: 02/11/20 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	0.0551	U	0.0841	0.0843	1.00	0.144	pCi/L	02/17/20 12:15	03/10/20 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					02/17/20 12:15	03/10/20 15:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0410	U	0.243	0.243	1.00	0.429	pCi/L	02/17/20 13:01	03/04/20 18:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					02/17/20 13:01	03/04/20 18:18	1
Y Carrier	84.1		40 - 110					02/17/20 13:01	03/04/20 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	0.0961	U	0.257	0.257	2.00	0.429	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWC-12

Lab Sample ID: 180-102169-7

Date Collected: 02/05/20 14:16

Matrix: Water

Date Received: 02/11/20 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	0.118	U	0.0882	0.0888	1.00	0.127	pCi/L	02/17/20 12:15	03/10/20 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					02/17/20 12:15	03/10/20 15:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.107	U	0.306	0.306	1.00	0.524	pCi/L	02/17/20 13:01	03/04/20 18:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					02/17/20 13:01	03/04/20 18:19	1
Y Carrier	87.1		40 - 110					02/17/20 13:01	03/04/20 18:19	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-12

Date Collected: 02/05/20 14:16

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-7

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	0.225	U	0.318	0.319	2.00	0.524	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWC-11

Date Collected: 02/05/20 15:07

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-8

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	0.0274	U	0.0620	0.0620	1.00	0.114	pCi/L	02/17/20 12:15	03/10/20 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					02/17/20 12:15	03/10/20 15:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.136	U	0.264	0.264	1.00	0.448	pCi/L	02/17/20 13:01	03/04/20 18:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					02/17/20 13:01	03/04/20 18:19	1
Y Carrier	87.1		40 - 110					02/17/20 13:01	03/04/20 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	0.163	U	0.271	0.271	2.00	0.448	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWC-15

Date Collected: 02/07/20 10:38

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-9

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	0.0889	U	0.0815	0.0819	1.00	0.124	pCi/L	02/17/20 12:15	03/10/20 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					02/17/20 12:15	03/10/20 15:55	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-15

Date Collected: 02/07/20 10:38

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-9

Matrix: Water

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0365	U	0.284	0.284	1.00	0.498	pCi/L	02/17/20 13:01	03/04/20 18:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					02/17/20 13:01	03/04/20 18:19	1
Y Carrier	90.5		40 - 110					02/17/20 13:01	03/04/20 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	0.125	U	0.295	0.296	2.00	0.498	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWC-16

Date Collected: 02/07/20 11:28

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-10

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	0.155	U	0.109	0.110	1.00	0.157	pCi/L	02/17/20 12:15	03/10/20 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					02/17/20 12:15	03/10/20 15:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.642		0.293	0.299	1.00	0.424	pCi/L	02/17/20 13:01	03/04/20 18:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					02/17/20 13:01	03/04/20 18:19	1
Y Carrier	87.5		40 - 110					02/17/20 13:01	03/04/20 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	0.797		0.313	0.319	2.00	0.424	pCi/L		03/11/20 08:03	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-102169-11

Date Collected: 02/07/20 12:19

Matrix: Water

Date Received: 02/11/20 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	0.00328	U	0.0569	0.0569	1.00	0.117	pCi/L	02/17/20 12:15	03/10/20 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					02/17/20 12:15	03/10/20 15:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.197	U	0.266	0.267	1.00	0.444	pCi/L	02/17/20 13:01	03/04/20 18:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					02/17/20 13:01	03/04/20 18:19	1
Y Carrier	85.2		40 - 110					02/17/20 13:01	03/04/20 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	0.200	U	0.272	0.273	2.00	0.444	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWC-13

Lab Sample ID: 180-102169-12

Date Collected: 02/05/20 13:35

Matrix: Water

Date Received: 02/11/20 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	0.0718	U	0.0883	0.0885	1.00	0.146	pCi/L	02/17/20 12:15	03/10/20 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					02/17/20 12:15	03/10/20 15:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.537		0.270	0.274	1.00	0.397	pCi/L	02/17/20 13:01	03/04/20 18:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					02/17/20 13:01	03/04/20 18:19	1
Y Carrier	87.1		40 - 110					02/17/20 13:01	03/04/20 18:19	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-13

Date Collected: 02/05/20 13:35

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-12

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	0.609		0.284	0.288	2.00	0.397	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWC-14A

Date Collected: 02/05/20 14:40

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-13

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.384		0.131	0.135	1.00	0.130	pCi/L	02/17/20 12:15	03/10/20 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					02/17/20 12:15	03/10/20 15:55	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	0.220	0.220	1.00	0.376	pCi/L	02/17/20 13:01	03/04/20 18:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					02/17/20 13:01	03/04/20 18:20	1
Y Carrier	87.5		40 - 110					02/17/20 13:01	03/04/20 18:20	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	0.500		0.256	0.258	2.00	0.376	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWC-9

Date Collected: 02/05/20 16:00

Date Received: 02/11/20 09:00

Lab Sample ID: 180-102169-14

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	0.0831	U	0.0744	0.0747	1.00	0.112	pCi/L	02/17/20 12:15	03/10/20 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		40 - 110					02/17/20 12:15	03/10/20 15:55	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-102169-14

Date Collected: 02/05/20 16:00

Matrix: Water

Date Received: 02/11/20 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	-0.220	U	0.192	0.193	1.00	0.389	pCi/L	02/17/20 13:01	03/04/20 18:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		40 - 110					02/17/20 13:01	03/04/20 18:20	1
Y Carrier	87.1		40 - 110					02/17/20 13:01	03/04/20 18:20	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	-0.137	U	0.206	0.207	2.00	0.389	pCi/L		03/11/20 08:03	1

Client Sample ID: WGWC-8

Lab Sample ID: 180-102169-15

Date Collected: 02/07/20 10:35

Matrix: Water

Date Received: 02/11/20 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	0.504		0.158	0.164	1.00	0.161	pCi/L	02/17/20 12:15	03/10/20 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					02/17/20 12:15	03/10/20 15:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16		0.356	0.372	1.00	0.465	pCi/L	02/17/20 13:01	03/04/20 18:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					02/17/20 13:01	03/04/20 18:20	1
Y Carrier	86.4		40 - 110					02/17/20 13:01	03/04/20 18:20	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.66		0.389	0.407	2.00	0.465	pCi/L		03/11/20 08:03	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-102169-16

Date Collected: 02/07/20 12:20

Matrix: Water

Date Received: 02/11/20 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	0.0807	U	0.0833	0.0836	1.00	0.131	pCi/L	02/17/20 12:15	03/10/20 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					02/17/20 12:15	03/10/20 15:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.163	U	0.236	0.237	1.00	0.396	pCi/L	02/17/20 13:01	03/04/20 18:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					02/17/20 13:01	03/04/20 18:20	1
Y Carrier	86.4		40 - 110					02/17/20 13:01	03/04/20 18:20	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	0.244	U	0.250	0.251	2.00	0.396	pCi/L		03/11/20 08:03	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-460626/24-A
Matrix: Water
Analysis Batch: 463594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460626

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				02/17/20 12:15	03/10/20 15:56			
Radium-226	-0.02286	U	0.0621	0.0622	1.00	0.137	pCi/L	02/17/20 12:15	03/10/20 15:56		1	
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110					02/17/20 12:15	03/10/20 15:56	1		
	94.5											

Lab Sample ID: LCS 160-460626/1-A
Matrix: Water
Analysis Batch: 463594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460626

Analyte	LCS LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec.	
	%Yield	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					Limits	Limits
Radium-226			11.3	9.861		1.08	1.00	0.163	pCi/L	87	75 - 125	
Carrier	LCS LCS		Limits							%Rec.		RER
Ba Carrier	%Yield	Qualifier	40 - 110							75 - 125		0.27
	87.7											1

Lab Sample ID: LCSD 160-460626/2-A
Matrix: Water
Analysis Batch: 463594

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 460626

Analyte	LCSD LCSD		Spike	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec.		RER
	%Yield	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					Limits	Limits	
Radium-226			11.3	9.303		0.992	1.00	0.107	pCi/L	82	75 - 125	0.27	
Carrier	LCSD LCSD		Limits							%Rec.		RER	
Ba Carrier	%Yield	Qualifier	40 - 110							75 - 125		0.27	
	99.1											1	

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-460632/24-A
Matrix: Water
Analysis Batch: 463111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460632

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				02/17/20 13:01	03/04/20 18:20			
Radium-228	0.01360	U	0.209	0.209	1.00	0.375	pCi/L	02/17/20 13:01	03/04/20 18:20		1	
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110					02/17/20 13:01	03/04/20 18:20	1		
Y Carrier	86.7		40 - 110					02/17/20 13:01	03/04/20 18:20	1		

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

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

Lab Sample ID: LCS 160-460632/1-A
Matrix: Water
Analysis Batch: 463178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460632

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.05	8.766		1.07	1.00	0.477	pCi/L	97	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.7		40 - 110
Y Carrier	88.2		40 - 110

Lab Sample ID: LCSD 160-460632/2-A
Matrix: Water
Analysis Batch: 463178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 460632

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.05	8.231		0.987	1.00	0.405	pCi/L	91	75 - 125	0.26	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	99.1		40 - 110
Y Carrier	88.6		40 - 110

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley

Job ID: 180-102169-2

Rad


Prep Batch: 460626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-1	WGWA-7	Total/NA	Water	PrecSep-21	
180-102169-2	FB-2-2-7-20	Total/NA	Water	PrecSep-21	
180-102169-3	Dup-2	Total/NA	Water	PrecSep-21	
180-102169-4	WGWA-18	Total/NA	Water	PrecSep-21	
180-102169-5	EB-2-2-7-20	Total/NA	Water	PrecSep-21	
180-102169-6	WGWC-10	Total/NA	Water	PrecSep-21	
180-102169-7	WGWC-12	Total/NA	Water	PrecSep-21	
180-102169-8	WGWC-11	Total/NA	Water	PrecSep-21	
180-102169-9	WGWC-15	Total/NA	Water	PrecSep-21	
180-102169-10	WGWC-16	Total/NA	Water	PrecSep-21	
180-102169-11	WGWC-19	Total/NA	Water	PrecSep-21	
180-102169-12	WGWC-13	Total/NA	Water	PrecSep-21	
180-102169-13	WGWC-14A	Total/NA	Water	PrecSep-21	
180-102169-14	WGWC-9	Total/NA	Water	PrecSep-21	
180-102169-15	WGWC-8	Total/NA	Water	PrecSep-21	
180-102169-16	WGWC-17	Total/NA	Water	PrecSep-21	
MB 160-460626/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-460626/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-460626/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 460632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-102169-1	WGWA-7	Total/NA	Water	PrecSep_0	
180-102169-2	FB-2-2-7-20	Total/NA	Water	PrecSep_0	
180-102169-3	Dup-2	Total/NA	Water	PrecSep_0	
180-102169-4	WGWA-18	Total/NA	Water	PrecSep_0	
180-102169-5	EB-2-2-7-20	Total/NA	Water	PrecSep_0	
180-102169-6	WGWC-10	Total/NA	Water	PrecSep_0	
180-102169-7	WGWC-12	Total/NA	Water	PrecSep_0	
180-102169-8	WGWC-11	Total/NA	Water	PrecSep_0	
180-102169-9	WGWC-15	Total/NA	Water	PrecSep_0	
180-102169-10	WGWC-16	Total/NA	Water	PrecSep_0	
180-102169-11	WGWC-19	Total/NA	Water	PrecSep_0	
180-102169-12	WGWC-13	Total/NA	Water	PrecSep_0	
180-102169-13	WGWC-14A	Total/NA	Water	PrecSep_0	
180-102169-14	WGWC-9	Total/NA	Water	PrecSep_0	
180-102169-15	WGWC-8	Total/NA	Water	PrecSep_0	
180-102169-16	WGWC-17	Total/NA	Water	PrecSep_0	
MB 160-460632/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-460632/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-460632/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information Client Contact: Joji Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Sampler: O. Fuquka Lab PM: Veronica Bortot Phone: (770) 594-5998 E-Mail: (Veronica.Bortot@testamericainc.com)		Carrier Tracking No(s): 400-72601-28757.1 COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 SCS:10347656 WO #: Project #: 40007709 SSOW#:		Analysis Requested  180-102169 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification WGWC-10 WGWA-7 WGW-12 WGW-11 WGW-15 WGW-16 WGW-19 FB-2-2-7-20 DUP-2		Sample Date 2-5-20 2-5-20 2-5-20 2-5-20 2-7-20 2-7-20 2-7-20 2-7-20 2-7-20		Sample Time 1124 1233 1416 1507 1038 1128 1219 1020 /	
Sample Type (C=Comp, G=grab) G G G G G G G G G		Preservation Code: W W W W W W W W W		Field Filtered Sample (Yes or No) N N N N N N N N N	
Perform MS/MSD (Yes or No) N N N N N N N N N		Metals App. IV D N N N N N N N N		Fluoride (SW-846 9315/9320) N N N N N N N N N	
Total Number of contain 3 3 3 3 3 4 3 3		Special Instructions/Note: 681-Atlanta 68 i-Atlanta		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: 2/10/20 13:00 Relinquished by: _____ Date/Time: 2/11/20 16:00 Relinquished by: _____ Date/Time: 9:00					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:					



Client Information Client Contact: Joju Abraham Phone: (770) 594-5998 E-Mail: (Veronica.Bortot@testamericainc.com) Lab PM: Veronica Bortot Carrier Tracking No(s): COC No: 400-72601-28757.1 Page: Page: Job #:		Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSOW#:		Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
Analysis Requested Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App. IV Fluoride Radium 226 & 228 (SW-846 9315/9320)		Total Number of Containers		Special Instructions/Note: 681-Atlanta				
Sample Identification WGWA-8 WGWL-13 WGWL-14A WGWL-9 EB-2-2-7-20 WGWL-8 WGWL-17	Sample Date 2-5-20 2-5-20 2-5-20 2-5-20 2-7-20 2-7-20 2-7-20	Sample Time 1705 1335 1440 1400 1010 1035 1220	Sample Type (C=Comp, G=grab) G G G G G G G	Preservation Code: W W W W W W W	Matrix (W=water, S=solid, O=wasteoil, BT=tissue, A=air) W W W W W W W	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App. IV Fluoride Radium 226 & 228 (SW-846 9315/9320)	Total Number of Containers 3 4 3 3 3 3 3	Special Instructions/Note: 681-Atlanta
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Empty Kit Relinquished by:		Date:		Method of Shipment:				
Relinquished by:		Date/Time: 2/10/20 13:00		Received by: [Signature]				
Relinquished by:		Date/Time: 2/10/20 16:00		Received by: [Signature]				
Relinquished by:		Date/Time:		Received by:				
Custody Seals Intact Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				



TestAmerica Pittsburgh
 301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



180-102169-02 Chain of Custody

TestAmerica
 LABORATORY ENVIRONMENTAL TESTING

Lab P/N: Veronica Bortot
 Client Contact: Joju Abraham
 Company: Southern Company
 Address: PO BOX 2641 GSC8
 Birmingham
 State, Zip: AL, 35291
 Phone: (770) 594-5998
 E-Mail: (Veronica.Bortot@testamericainc.com)

Due Date Requested:
 TAT Requested (days):
 FO #: SCS10347656
 WO #:
 Project #: 40007709
 SSO#:
 Email: JAbraham@southernco.com
 Project Name: CCR - Plant Wansley - Ash Pond
 Site: Georgia

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=overstool, B=bitissue, A=air)	Field Filtered Sample (Yes or No)	Formaldehyde (Yes or No)	Metals App. IV	Fluoride	Radium 226 & 228 (SW-846 93169320)	Total Number of Containers	Special Instructions/Note:
WGWA-8	2-5-20	1705	G	W	N	N	✓	✓	✓	3	
WGWC-13	2-5-20	1335	G	W	N	N	✓	✓	✓	4	
WGWC-14A	2-5-20	1440	G	W	N	N	✓	✓	✓	3	
WGWC-9	2-5-20	1600	G	W	N	N	✓	✓	✓	3	
EB-2-2-7-20	2-7-20	1010	G	W	N	N	✓	✓	✓	3	
WGWC-8	2-7-20	1035	G	W	N	N	✓	✓	✓	3	604-Atlanta
WGWC-17	2-7-20	1220	G	W	N	N	✓	✓	✓	3	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 2/10/20 1300
 Relinquished by: _____ Date: 2/10/20 1600
 Relinquished by: _____ Date: _____

Special Instructions/OC Requirements:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Method of Shipment: _____
 Received by: _____ Date: 2/10/20 1300
 Received by: _____ Date: 2-11-20
 Received by: _____ Date: 9:00
 Cooler Temperature(s) °C and Other Remarks: 2-11-20 9:00 ERAF
 Custody Seal No.: _____
 Δ Yes Δ No

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9
10
11
12
13



180-102169 Waybill

eurofins

**Environment Testing
TestAmerica**

Part # 159458-434 FITT EXP 07/20

ORIGIN IDALIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 WINDYHURST DRIVE
SUITE 110
DUNWOODY GA 30093
UNITED STATES US

SHIP DATE: 10FEB20
ACTWGT: 55.80 LB
CAD: 859116/CAFE3312

BILL RECIPIENT

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

REF: ACC - PLT WANSLEY



**FedEx
Express**



2 of 3
MPS# 1516 9323 0175
Mstr# 1516 9323 0164

**TUE - 11 FEB 3:00P
STANDARD OVERNIGHT**

AGCA

15238
PA-US PIT

Corrected temp _____
Thermometer ID 310

Initials JB

SR-001 effective 11/8/18



1
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10
11
12
13

Loc: 180
100986



Environment Testing
TestAmerica

97
15:00 A
0103
07/11

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

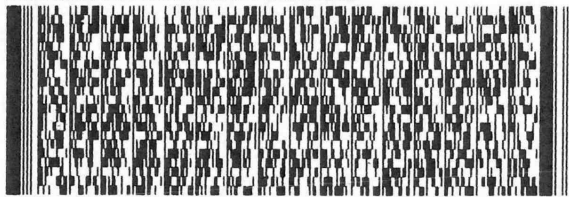
SHIP DATE: 10FEB20
ACTWGT: 55.80 LB
CAD: 859116/CAFE3312

BILL RECIPIENT

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

(412) 963-7068

REF: ACC - PLT WANSLEY



FedEx
Express



1 of 3

TRK# 1516 9323 0164
0201

MASTER

NA AGCA

TUE - 11 FEB 3:00P
STANDARD OVERNIGHT

15238
PA-US PIT

Uncorrected temp
Thermometer ID

CF

Initials

PT-WI-SR-001 effective 11/8/18

318
10
B

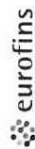


- 1
- 2
- 3
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- 7
- 8
- 9
- 10
- 11
- 12
- 13

- 1
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- 9
- 10
- 11
- 12
- 13

3.0
CFE=0
#10

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Bortol, Veronica	Carrier Tracking No(s): 180-385221.1
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 180-102169-2
Address: 13715 Rider Trail North,		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)	
City: Earth City	Due Date Requested: 3/13/2020	Analysis Requested	
State, Zip: MO, 63045	TAT Requested (days):	Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	9315_Ra226/PreSep_21 (MOD) Copy Analytes	
Email: CCR - Plant Wansley	WO #:	9320_Ra228/PreSep_0 (MOD) Local Method	
Project Name: CCR - Plant Wansley	Project #: 18019922	Perform MS/MSD (Yes or No)	
Site: Wansley CCR	SSOW#:	Field Filtered Sample (Yes or No)	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)
WGWA-7 (180-102169-1)	2/5/20	12:33 Eastern	Water
FB-2-2-7-20 (180-102169-2)	2/7/20	10:20 Eastern	Water
Dup-2 (180-102169-3)	2/7/20	Eastern	Water
WGWA-18 (180-102169-4)	2/5/20	12:05 Eastern	Water
EB-2-2-7-20 (180-102169-5)	2/7/20	10:10 Eastern	Water
WGWC-10 (180-102169-6)	2/5/20	11:24 Eastern	Water
WGWC-12 (180-102169-7)	2/5/20	14:16 Eastern	Water
WGWC-11 (180-102169-8)	2/5/20	15:07 Eastern	Water
WGWC-15 (180-102169-9)	2/7/20	10:38 Eastern	Water
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:		Time:	
Relinquished by: <i>Matthew Jockis</i>		Date: 2/13/2020 1700	
Relinquished by:		Date/Time: 2/14/20 9:30	
Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks:		Company: IETA P.I.H.	
Cooler Temperature(s) °C and Other Remarks:		Company: STA SR	
Cooler Temperature(s) °C and Other Remarks:		Company:	



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Bortol, Veronica	Carrier Tracking No(s):		COC No: 180-385221.2
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com	State of Origin: Georgia		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 180-102169-2	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify) Other:
Address: 13715 Rider Trail North,		Due Date Requested: 3/13/2020		Analysis Requested	
City: Earth City		TAT Requested (days):		Total Number of Containers	
State, Zip: MO, 63045		PO #:		9315_Ra226/PreSep_21 (MOD) Copy Analytes	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		9320_Ra228/PreSep_0 (MOD) Copy Analytes	
Email:		Project #: 18019922		9326Ra228_GPC/ (MOD) Local Method	
Project Name: CCR - Plant Wansley		SSOW#:		Perform MS/MSD (Yes or No)	
Site: Wansley CCR		Sample Date		Field Filtered Sample (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Time		Preservation Code:	
WGWC-16 (180-102169-10)	2/7/20	11:28 Eastern	Water	X	1
WGWC-19 (180-102169-11)	2/7/20	12:19 Eastern	Water	X	2
WGWC-13 (180-102169-12)	2/5/20	13:35 Eastern	Water	X	2
WGWC-14A (180-102169-13)	2/5/20	14:40 Eastern	Water	X	1
WGWC-9 (180-102169-14)	2/5/20	16:00 Eastern	Water	X	1
WGWC-8 (180-102169-15)	2/7/20	10:35 Eastern	Water	X	1
WGWC-17 (180-102169-16)	2/7/20	12:20 Eastern	Water	X	1
Special Instructions/Note:					

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>Matthew Jones</i>	Date: 2/13/2020 1700	Received by: <i>[Signature]</i>	Date/Time: 2/14/20 9:30
Relinquished by:	Date/Time:	Company: ETA P.H.	Company: STA STZ
Relinquished by:	Date/Time:	Company:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-102169-2

Login Number: 102169

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?	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: 180-102169-2

Login Number: 102169

List Number: 2

Creator: Harris, Lorin C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 02/14/20 03:52 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	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-103742-1

Client Project/Site: CCR - Plant Wansley Ash Pond
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
6/1/2020 11:30:38 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Job ID: 180-103742-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-103742-1

Comments

060120 Revised report to remove Antimony per client request. This report replaces the report previously issued on 041320.

Receipt

The samples were received on 3/19/2020 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 2.9° C and 3.9° C.

GC Semi VOA

Methods 300.0, 9056A: The matrix spike / matrix spike duplicate (MS/MSD) precision for Fluoride for analytical batch 180-311618 was outside control limits. Sample matrix interference is suspected.

Methods 300.0, 9056A: The matrix spike duplicate (MSD) recovery for Sulfate for analytical batch 180-311839 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery and matrix spike (MS) were within acceptance limits.

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

Metals

Method 7470A: The LCS associated with 310886 was accidentally spiked with 2.25 mL rather than 1.25 mL.

WGWA-3 (180-103742-3), WGWA-4 (180-103742-4), WGWA-5 (180-103742-5), WGWA-6 (180-103742-6), WGWA-7 (180-103742-7), WGWA-18 (180-103742-8), EB-1 3-17-20 (180-103742-9) and DUPLICATE 1 3-17-20 (180-103742-10)

Method 7470A: The LCS associated with 310888 was accidentally spiked with 2.25 mL rather than 1.25 mL.

WGWC-11 (180-103742-11), (180-103742-C-11 MS) and (180-103742-C-11 MSD)

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

Field Service

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

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
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: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103742-1	WGWA-1	Water	03/16/20 14:15	03/19/20 08:30	
180-103742-2	WGWA-2	Water	03/16/20 12:25	03/19/20 08:30	
180-103742-3	WGWA-3	Water	03/17/20 11:35	03/19/20 08:30	
180-103742-4	WGWA-4	Water	03/17/20 10:40	03/19/20 08:30	
180-103742-5	WGWA-5	Water	03/17/20 12:50	03/19/20 08:30	
180-103742-6	WGWA-6	Water	03/17/20 11:15	03/19/20 08:30	
180-103742-7	WGWA-7	Water	03/17/20 14:05	03/19/20 08:30	
180-103742-8	WGWA-18	Water	03/17/20 14:35	03/19/20 08:30	
180-103742-9	EB-1 3-17-20	Water	03/17/20 14:00	03/19/20 08:30	
180-103742-10	DUPLICATE 1 3-17-20	Water	03/17/20 00:00	03/19/20 08:30	
180-103742-11	WGWC-11	Water	03/18/20 13:05	03/19/20 08:30	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-103742-1

Date Collected: 03/16/20 14:15

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			311618	04/01/20 00:11	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 14:41	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:33	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310565	03/20/20 09:14	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/16/20 14:15	FDS	TAL PIT

Client Sample ID: WGWA-2

Lab Sample ID: 180-103742-2

Date Collected: 03/16/20 12:25

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			311618	04/01/20 00:27	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 14:53	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310885	03/23/20 17:44	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 16:34	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310565	03/20/20 09:14	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/16/20 12:25	FDS	TAL PIT

Client Sample ID: WGWA-3

Lab Sample ID: 180-103742-3

Date Collected: 03/17/20 11:35

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			311839	04/03/20 00:52	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 14:56	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310886	03/23/20 17:48	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:13	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-103742-3

Date Collected: 03/17/20 11:35

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	310565	03/20/20 09:14	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 11:35	FDS	TAL PIT

Client Sample ID: WGWA-4

Lab Sample ID: 180-103742-4

Date Collected: 03/17/20 10:40

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			311491	03/30/20 16:46	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 15:03	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310886	03/23/20 17:48	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:14	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310565	03/20/20 09:14	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 10:40	FDS	TAL PIT

Client Sample ID: WGWA-5

Lab Sample ID: 180-103742-5

Date Collected: 03/17/20 12:50

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			311491	03/30/20 17:33	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 15:05	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310886	03/23/20 17:48	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:15	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310587	03/20/20 11:51	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 12:50	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-103742-6

Date Collected: 03/17/20 11:15

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			311491	03/30/20 17:49	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 15:08	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310886	03/23/20 17:48	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:16	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310562	03/20/20 09:05	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 11:15	FDS	TAL PIT

Client Sample ID: WGWA-7

Lab Sample ID: 180-103742-7

Date Collected: 03/17/20 14:05

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			311618	04/01/20 00:43	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 15:10	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310886	03/23/20 17:48	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:17	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310562	03/20/20 09:05	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 14:05	FDS	TAL PIT

Client Sample ID: WGWA-18

Lab Sample ID: 180-103742-8

Date Collected: 03/17/20 14:35

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			311618	04/01/20 00:59	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 15:13	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310886	03/23/20 17:48	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:18	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-103742-8

Date Collected: 03/17/20 14:35

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	310565	03/20/20 09:14	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/17/20 14:35	FDS	TAL PIT

Client Sample ID: EB-1 3-17-20

Lab Sample ID: 180-103742-9

Date Collected: 03/17/20 14:00

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			311618	04/01/20 01:15	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 15:15	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310886	03/23/20 17:48	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:19	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310565	03/20/20 09:14	AVS	TAL PIT

Client Sample ID: DUPLICATE 1 3-17-20

Lab Sample ID: 180-103742-10

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			311618	04/01/20 01:30	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 15:18	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	310886	03/23/20 17:48	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:20	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310664	03/21/20 07:58	AVS	TAL PIT

Client Sample ID: WGWC-11

Lab Sample ID: 180-103742-11

Date Collected: 03/18/20 13:05

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			311618	04/01/20 01:46	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311070	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312551	04/09/20 15:20	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-103742-11

Date Collected: 03/18/20 13:05

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	7470A			50 mL	50 mL	310888	03/23/20 17:54	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311000	03/24/20 17:43	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	03/18/20 13:05	FDS	TAL PIT

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

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

SAC = Shawn Clemente

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-103742-1

Date Collected: 03/16/20 14:15

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	4.3		1.0	0.32	mg/L			04/01/20 00:11	1
Fluoride	0.042	J	0.10	0.026	mg/L			04/01/20 00:11	1
Sulfate	0.42	J	1.0	0.38	mg/L			04/01/20 00:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00038	J	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 14:41	1
Barium	0.046		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 14:41	1
Beryllium	0.00071	J	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 14:41	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 14:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 14:41	1
Calcium	1.1		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 14:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 14:41	1
Cobalt	0.00092	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 14:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 14:41	1
Lead	0.00021	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 14:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 14:41	1
Thallium	0.00036	J	0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 14:41	1
Lithium	0.0053		0.0050	0.0034	mg/L		03/25/20 11:00	04/09/20 14:41	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 17:44	03/24/20 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	23		10	10	mg/L			03/20/20 09:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.29				SU			03/16/20 14:15	1

Client Sample ID: WGWA-2

Lab Sample ID: 180-103742-2

Date Collected: 03/16/20 12:25

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	2.7		1.0	0.32	mg/L			04/01/20 00:27	1
Fluoride	0.052	J	0.10	0.026	mg/L			04/01/20 00:27	1
Sulfate	1.3		1.0	0.38	mg/L			04/01/20 00:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00043	J	0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 14:53	1
Barium	0.026		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 14:53	1
Beryllium	0.00076	J	0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 14:53	1
Boron	0.048	J	0.080	0.039	mg/L		03/25/20 11:00	04/09/20 14:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 14:53	1
Calcium	10		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 14:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 14:53	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-103742-2

Date Collected: 03/16/20 12:25

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	0.00066	J	0.0025	0.00013	mg/L	-	03/25/20 11:00	04/09/20 14:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L	-	03/25/20 11:00	04/09/20 14:53	1
Lead	0.00018	J	0.0010	0.00013	mg/L	-	03/25/20 11:00	04/09/20 14:53	1
Selenium	0.0026	J	0.0050	0.0015	mg/L	-	03/25/20 11:00	04/09/20 14:53	1
Thallium	0.00030	J	0.0010	0.00015	mg/L	-	03/25/20 11:00	04/09/20 14:53	1
Lithium	0.0083		0.0050	0.0034	mg/L	-	03/25/20 11:00	04/09/20 14:53	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 17:44	03/24/20 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	90		10	10	mg/L	-		03/20/20 09:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.01				SU	-		03/16/20 12:25	1

Client Sample ID: WGWA-3

Lab Sample ID: 180-103742-3

Date Collected: 03/17/20 11:35

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	1.8		1.0	0.32	mg/L	-		04/03/20 00:52	1
Fluoride	0.040	J	0.10	0.026	mg/L	-		04/03/20 00:52	1
Sulfate	1.2		1.0	0.38	mg/L	-		04/03/20 00:52	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 11:00	04/09/20 14:56	1
Barium	0.013		0.010	0.0016	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Beryllium	0.00021	J	0.0025	0.00018	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Boron	<0.039		0.080	0.039	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Calcium	1.7		0.50	0.13	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Cobalt	<0.00013		0.0025	0.00013	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Lead	0.00019	J	0.0010	0.00013	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L	-	03/25/20 11:00	04/09/20 14:56	1
Lithium	<0.0034		0.0050	0.0034	mg/L	-	03/25/20 11:00	04/09/20 14:56	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 17:48	03/24/20 17:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-103742-3

Date Collected: 03/17/20 11:35

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	20		10	10	mg/L			03/20/20 09:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.61				SU			03/17/20 11:35	1

Client Sample ID: WGWA-4

Lab Sample ID: 180-103742-4

Date Collected: 03/17/20 10:40

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	1.4		1.0	0.32	mg/L			03/30/20 16:46	1
Fluoride	0.11		0.10	0.026	mg/L			03/30/20 16:46	1
Sulfate	12		1.0	0.38	mg/L			03/30/20 16:46	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		03/25/20 11:00	04/09/20 15:03	1
Barium	0.0059	J	0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:03	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:03	1
Calcium	15		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:03	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 15:03	1
Lead	0.00016	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:03	1
Lithium	0.0059		0.0050	0.0034	mg/L		03/25/20 11:00	04/09/20 15:03	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 17:48	03/24/20 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			03/20/20 09:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.83				SU			03/17/20 10:40	1

Client Sample ID: WGWA-5

Lab Sample ID: 180-103742-5

Date Collected: 03/17/20 12:50

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			03/30/20 17:33	1
Fluoride	<0.026		0.10	0.026	mg/L			03/30/20 17:33	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-103742-5

Date Collected: 03/17/20 12:50

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	4.0		1.0	0.38	mg/L			03/30/20 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/09/20 15:05	1
Barium	0.017		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:05	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:05	1
Calcium	1.4		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:05	1
Cobalt	0.00066	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 15:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/09/20 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		03/23/20 17:48	03/24/20 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		10	10	mg/L			03/20/20 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.34				SU			03/17/20 12:50	1

Client Sample ID: WGWA-6

Lab Sample ID: 180-103742-6

Date Collected: 03/17/20 11:15

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	1.7		1.0	0.32	mg/L			03/30/20 17:49	1
Fluoride	0.037	J	0.10	0.026	mg/L			03/30/20 17:49	1
Sulfate	12		1.0	0.38	mg/L			03/30/20 17:49	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 11:00	04/09/20 15:08	1
Barium	0.0081	J	0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:08	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:08	1
Calcium	26		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:08	1
Cobalt	0.00014	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 15:08	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-103742-6

Date Collected: 03/17/20 11:15

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
Lead	0.00017	J	0.0010	0.00013	mg/L	-	03/25/20 11:00	04/09/20 15:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L	-	03/25/20 11:00	04/09/20 15:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L	-	03/25/20 11:00	04/09/20 15:08	1
Lithium	0.0055		0.0050	0.0034	mg/L	-	03/25/20 11:00	04/09/20 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	-	03/23/20 17:48	03/24/20 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L	-		03/20/20 09:05	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.96				SU	-		03/17/20 11:15	1

Client Sample ID: WGWA-7

Lab Sample ID: 180-103742-7

Date Collected: 03/17/20 14:05

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	2.2		1.0	0.32	mg/L	-		04/01/20 00:43	1
Fluoride	0.044	J	0.10	0.026	mg/L	-		04/01/20 00:43	1
Sulfate	0.86	J	1.0	0.38	mg/L	-		04/01/20 00:43	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 11:00	04/09/20 15:10	1
Barium	0.012		0.010	0.0016	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Beryllium	<0.00018		0.0025	0.00018	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Boron	<0.039		0.080	0.039	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Calcium	0.82		0.50	0.13	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Cobalt	0.00065	J	0.0025	0.00013	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Lead	<0.00013		0.0010	0.00013	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Thallium	<0.00015		0.0010	0.00015	mg/L	-	03/25/20 11:00	04/09/20 15:10	1
Lithium	<0.0034		0.0050	0.0034	mg/L	-	03/25/20 11:00	04/09/20 15:10	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	-	03/23/20 17:48	03/24/20 17:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	19		10	10	mg/L	-		03/20/20 09:05	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-103742-7

Date Collected: 03/17/20 14:05

Matrix: Water

Date Received: 03/19/20 08:30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.32				SU			03/17/20 14:05	1

Client Sample ID: WGWA-18

Lab Sample ID: 180-103742-8

Date Collected: 03/17/20 14:35

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	2.3		1.0	0.32	mg/L			04/01/20 00:59	1
Fluoride	<0.026		0.10	0.026	mg/L			04/01/20 00:59	1
Sulfate	8.5		1.0	0.38	mg/L			04/01/20 00:59	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		03/25/20 11:00	04/09/20 15:13	1
Barium	0.013		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:13	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:13	1
Calcium	10		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:13	1
Cobalt	0.0017	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:13	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 15:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:13	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/09/20 15:13	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		03/23/20 17:48	03/24/20 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	81		10	10	mg/L			03/20/20 09:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.36				SU			03/17/20 14:35	1

Client Sample ID: EB-1 3-17-20

Lab Sample ID: 180-103742-9

Date Collected: 03/17/20 14:00

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			04/01/20 01:15	1
Fluoride	0.036	J	0.10	0.026	mg/L			04/01/20 01:15	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/20 01:15	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: EB-1 3-17-20

Lab Sample ID: 180-103742-9

Date Collected: 03/17/20 14:00

Matrix: Water

Date Received: 03/19/20 08:30

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		03/25/20 11:00	04/09/20 15:15	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:15	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:15	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:15	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 15:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/09/20 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		03/23/20 17:48	03/24/20 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/20/20 09:14	1

Client Sample ID: DUPLICATE 1 3-17-20

Lab Sample ID: 180-103742-10

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	1.8		1.0	0.32	mg/L			04/01/20 01:30	1
Fluoride	0.039	J	0.10	0.026	mg/L			04/01/20 01:30	1
Sulfate	1.2		1.0	0.38	mg/L			04/01/20 01:30	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 11:00	04/09/20 15:18	1
Barium	0.014		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:18	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:18	1
Calcium	1.8		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:18	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 15:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:18	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/09/20 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		03/23/20 17:48	03/24/20 17:20	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Client Sample ID: DUPLICATE 1 3-17-20

Lab Sample ID: 180-103742-10

Date Collected: 03/17/20 00:00

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	28		10	10	mg/L			03/21/20 07:58	1

Client Sample ID: WGWC-11

Lab Sample ID: 180-103742-11

Date Collected: 03/18/20 13:05

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	3.2		1.0	0.32	mg/L			04/01/20 01:46	1
Fluoride	<0.026		0.10	0.026	mg/L			04/01/20 01:46	1
Sulfate	1.6		1.0	0.38	mg/L			04/01/20 01:46	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		03/25/20 11:00	04/09/20 15:20	1
Barium	0.038		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 15:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 15:20	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 15:20	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 15:20	1
Calcium	1.6		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 15:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 15:20	1
Cobalt	0.00069	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 15:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 15:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 15:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 15:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 15:20	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/09/20 15:20	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 17:54	03/24/20 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		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	5.89				SU			03/18/20 13:05	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

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

Lab Sample ID: MB 180-311491/37
Matrix: Water
Analysis Batch: 311491

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			03/30/20 14:40	1
Fluoride	<0.026		0.10	0.026	mg/L			03/30/20 14:40	1
Sulfate	<0.38		1.0	0.38	mg/L			03/30/20 14:40	1

Lab Sample ID: MB 180-311491/6
Matrix: Water
Analysis Batch: 311491

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			03/30/20 06:28	1
Fluoride	<0.026		0.10	0.026	mg/L			03/30/20 06:28	1
Sulfate	<0.38		1.0	0.38	mg/L			03/30/20 06:28	1

Lab Sample ID: LCS 180-311491/36
Matrix: Water
Analysis Batch: 311491

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	2.33		mg/L		93	90 - 110
Sulfate	50.0	47.6		mg/L		95	90 - 110

Lab Sample ID: LCS 180-311491/5
Matrix: Water
Analysis Batch: 311491

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	48.0		mg/L		96	90 - 110
Fluoride	2.50	2.32		mg/L		93	90 - 110
Sulfate	50.0	47.2		mg/L		94	90 - 110

Lab Sample ID: MB 180-311618/46
Matrix: Water
Analysis Batch: 311618

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			03/31/20 21:49	1
Fluoride	<0.026		0.10	0.026	mg/L			03/31/20 21:49	1
Sulfate	<0.38		1.0	0.38	mg/L			03/31/20 21:49	1

Lab Sample ID: LCS 180-311618/45
Matrix: Water
Analysis Batch: 311618

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	48.9		mg/L		98	90 - 110
Fluoride	2.50	2.37		mg/L		95	90 - 110
Sulfate	50.0	48.4		mg/L		97	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

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

Lab Sample ID: MB 180-311839/45
Matrix: Water
Analysis Batch: 311839

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			04/02/20 19:21	1
Fluoride	<0.026		0.10	0.026	mg/L			04/02/20 19:21	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/20 19:21	1

Lab Sample ID: LCS 180-311839/44
Matrix: Water
Analysis Batch: 311839

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	2.42		mg/L		97	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

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

Lab Sample ID: MB 180-311070/1-A
Matrix: Water
Analysis Batch: 312551

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311070

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 11:00	04/09/20 14:31	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/09/20 14:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/09/20 14:31	1
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/09/20 14:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/09/20 14:31	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/09/20 14:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/09/20 14:31	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/09/20 14:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/09/20 14:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/09/20 14:31	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/09/20 14:31	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/09/20 14:31	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/09/20 14:31	1

Lab Sample ID: LCS 180-311070/2-A
Matrix: Water
Analysis Batch: 312551

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.938		mg/L		94	80 - 120
Barium	1.00	0.997		mg/L		100	80 - 120
Beryllium	0.500	0.479		mg/L		96	80 - 120
Boron	1.25	1.24		mg/L		99	80 - 120
Cadmium	0.500	0.503		mg/L		101	80 - 120
Calcium	25.0	25.7		mg/L		103	80 - 120
Chromium	0.500	0.513		mg/L		103	80 - 120
Cobalt	0.500	0.463		mg/L		93	80 - 120
Molybdenum	0.500	0.506		mg/L		101	80 - 120
Lead	0.500	0.503		mg/L		101	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

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

Lab Sample ID: LCS 180-311070/2-A
Matrix: Water
Analysis Batch: 312551

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.02		mg/L		102	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120

Lab Sample ID: 180-103742-1 MS
Matrix: Water
Analysis Batch: 312551

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 311070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00038	J	1.00	0.930		mg/L		93	75 - 125
Barium	0.046		1.00	1.06		mg/L		101	75 - 125
Beryllium	0.00071	J	0.500	0.483		mg/L		96	75 - 125
Boron	<0.039		1.25	1.29		mg/L		103	75 - 125
Cadmium	<0.00022		0.500	0.509		mg/L		102	75 - 125
Calcium	1.1		25.0	26.9		mg/L		103	75 - 125
Chromium	<0.0015		0.500	0.509		mg/L		102	75 - 125
Cobalt	0.00092	J	0.500	0.451		mg/L		90	75 - 125
Molybdenum	<0.00061		0.500	0.501		mg/L		100	75 - 125
Lead	0.00021	J	0.500	0.491		mg/L		98	75 - 125
Selenium	<0.0015		1.00	1.08		mg/L		108	75 - 125
Thallium	0.00036	J	1.00	1.01		mg/L		101	75 - 125
Lithium	0.0053		0.500	0.492		mg/L		97	75 - 125

Lab Sample ID: 180-103742-1 MSD
Matrix: Water
Analysis Batch: 312551

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 311070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.00038	J	1.00	0.929		mg/L		93	75 - 125	0	20
Barium	0.046		1.00	1.05		mg/L		100	75 - 125	1	20
Beryllium	0.00071	J	0.500	0.491		mg/L		98	75 - 125	2	20
Boron	<0.039		1.25	1.32		mg/L		106	75 - 125	3	20
Cadmium	<0.00022		0.500	0.518		mg/L		104	75 - 125	2	20
Calcium	1.1		25.0	27.1		mg/L		104	75 - 125	1	20
Chromium	<0.0015		0.500	0.519		mg/L		104	75 - 125	2	20
Cobalt	0.00092	J	0.500	0.454		mg/L		91	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.504		mg/L		101	75 - 125	1	20
Lead	0.00021	J	0.500	0.501		mg/L		100	75 - 125	2	20
Selenium	<0.0015		1.00	1.10		mg/L		110	75 - 125	2	20
Thallium	0.00036	J	1.00	1.00		mg/L		100	75 - 125	0	20
Lithium	0.0053		0.500	0.499		mg/L		99	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-310885/1-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310885

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 17:44	03/24/20 16:29	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: LCS 180-310885/2-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310885
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00236		mg/L		94	80 - 120

Lab Sample ID: MB 180-310886/1-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310886

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 17:48	03/24/20 16:58	1

Lab Sample ID: LCS 180-310886/2-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310886
%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: MB 180-310888/1-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310888

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 17:54	03/24/20 17:26	1

Lab Sample ID: LCS 180-310888/2-A
Matrix: Water
Analysis Batch: 311000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310888
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00450	0.00440		mg/L		98	80 - 120

Lab Sample ID: 180-103742-11 MS
Matrix: Water
Analysis Batch: 311000

Client Sample ID: WGWC-11
Prep Type: Total/NA
Prep Batch: 310888
%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: 180-103742-11 MSD
Matrix: Water
Analysis Batch: 311000

Client Sample ID: WGWC-11
Prep Type: Total/NA
Prep Batch: 310888
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000985		mg/L		99	75 - 125	2	20

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

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

Lab Sample ID: MB 180-310562/2
Matrix: Water
Analysis Batch: 310562

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			03/20/20 09:05	1

Lab Sample ID: LCS 180-310562/1
Matrix: Water
Analysis Batch: 310562

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: MB 180-310565/2
Matrix: Water
Analysis Batch: 310565

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			03/20/20 09:14	1

Lab Sample ID: LCS 180-310565/1
Matrix: Water
Analysis Batch: 310565

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	242		mg/L		100	80 - 120

Lab Sample ID: MB 180-310587/2
Matrix: Water
Analysis Batch: 310587

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			03/20/20 11:51	1

Lab Sample ID: LCS 180-310587/1
Matrix: Water
Analysis Batch: 310587

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: MB 180-310664/2
Matrix: Water
Analysis Batch: 310664

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 07:58	1

Lab Sample ID: LCS 180-310664/1
Matrix: Water
Analysis Batch: 310664

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

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

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



QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

HPLC/IC

Analysis Batch: 311491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-4	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-103742-5	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-103742-6	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	
MB 180-311491/37	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-311491/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-311491/36	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-311491/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 311618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-103742-2	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-103742-7	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	
180-103742-8	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-103742-9	EB-1 3-17-20	Total/NA	Water	EPA 300.0 R2.1	
180-103742-10	DUPLICATE 1 3-17-20	Total/NA	Water	EPA 300.0 R2.1	
180-103742-11	WGWC-11	Total/NA	Water	EPA 300.0 R2.1	
MB 180-311618/46	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-311618/45	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 311839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-3	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-311839/45	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-311839/44	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 310885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total/NA	Water	7470A	
180-103742-2	WGWA-2	Total/NA	Water	7470A	
MB 180-310885/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310885/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 310886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-3	WGWA-3	Total/NA	Water	7470A	
180-103742-4	WGWA-4	Total/NA	Water	7470A	
180-103742-5	WGWA-5	Total/NA	Water	7470A	
180-103742-6	WGWA-6	Total/NA	Water	7470A	
180-103742-7	WGWA-7	Total/NA	Water	7470A	
180-103742-8	WGWA-18	Total/NA	Water	7470A	
180-103742-9	EB-1 3-17-20	Total/NA	Water	7470A	
180-103742-10	DUPLICATE 1 3-17-20	Total/NA	Water	7470A	
MB 180-310886/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310886/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 310888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-11	WGWC-11	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Metals (Continued)

Prep Batch: 310888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-310888/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-310888/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-103742-11 MS	WGWC-11	Total/NA	Water	7470A	
180-103742-11 MSD	WGWC-11	Total/NA	Water	7470A	

Analysis Batch: 311000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total/NA	Water	EPA 7470A	310885
180-103742-2	WGWA-2	Total/NA	Water	EPA 7470A	310885
180-103742-3	WGWA-3	Total/NA	Water	EPA 7470A	310886
180-103742-4	WGWA-4	Total/NA	Water	EPA 7470A	310886
180-103742-5	WGWA-5	Total/NA	Water	EPA 7470A	310886
180-103742-6	WGWA-6	Total/NA	Water	EPA 7470A	310886
180-103742-7	WGWA-7	Total/NA	Water	EPA 7470A	310886
180-103742-8	WGWA-18	Total/NA	Water	EPA 7470A	310886
180-103742-9	EB-1 3-17-20	Total/NA	Water	EPA 7470A	310886
180-103742-10	DUPLICATE 1 3-17-20	Total/NA	Water	EPA 7470A	310886
180-103742-11	WGWC-11	Total/NA	Water	EPA 7470A	310888
MB 180-310885/1-A	Method Blank	Total/NA	Water	EPA 7470A	310885
MB 180-310886/1-A	Method Blank	Total/NA	Water	EPA 7470A	310886
MB 180-310888/1-A	Method Blank	Total/NA	Water	EPA 7470A	310888
LCS 180-310885/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310885
LCS 180-310886/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310886
LCS 180-310888/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	310888
180-103742-11 MS	WGWC-11	Total/NA	Water	EPA 7470A	310888
180-103742-11 MSD	WGWC-11	Total/NA	Water	EPA 7470A	310888

Prep Batch: 311070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total Recoverable	Water	3005A	
180-103742-2	WGWA-2	Total Recoverable	Water	3005A	
180-103742-3	WGWA-3	Total Recoverable	Water	3005A	
180-103742-4	WGWA-4	Total Recoverable	Water	3005A	
180-103742-5	WGWA-5	Total Recoverable	Water	3005A	
180-103742-6	WGWA-6	Total Recoverable	Water	3005A	
180-103742-7	WGWA-7	Total Recoverable	Water	3005A	
180-103742-8	WGWA-18	Total Recoverable	Water	3005A	
180-103742-9	EB-1 3-17-20	Total Recoverable	Water	3005A	
180-103742-10	DUPLICATE 1 3-17-20	Total Recoverable	Water	3005A	
180-103742-11	WGWC-11	Total Recoverable	Water	3005A	
MB 180-311070/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-311070/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-103742-1 MS	WGWA-1	Total Recoverable	Water	3005A	
180-103742-1 MSD	WGWA-1	Total Recoverable	Water	3005A	

Analysis Batch: 312551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total Recoverable	Water	EPA 6020B	311070
180-103742-2	WGWA-2	Total Recoverable	Water	EPA 6020B	311070
180-103742-3	WGWA-3	Total Recoverable	Water	EPA 6020B	311070
180-103742-4	WGWA-4	Total Recoverable	Water	EPA 6020B	311070

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Metals (Continued)

Analysis Batch: 312551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-5	WGWA-5	Total Recoverable	Water	EPA 6020B	311070
180-103742-6	WGWA-6	Total Recoverable	Water	EPA 6020B	311070
180-103742-7	WGWA-7	Total Recoverable	Water	EPA 6020B	311070
180-103742-8	WGWA-18	Total Recoverable	Water	EPA 6020B	311070
180-103742-9	EB-1 3-17-20	Total Recoverable	Water	EPA 6020B	311070
180-103742-10	DUPLICATE 1 3-17-20	Total Recoverable	Water	EPA 6020B	311070
180-103742-11	WGWC-11	Total Recoverable	Water	EPA 6020B	311070
MB 180-311070/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	311070
LCS 180-311070/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	311070
180-103742-1 MS	WGWA-1	Total Recoverable	Water	EPA 6020B	311070
180-103742-1 MSD	WGWA-1	Total Recoverable	Water	EPA 6020B	311070

General Chemistry

Analysis Batch: 310562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-6	WGWA-6	Total/NA	Water	SM 2540C	
180-103742-7	WGWA-7	Total/NA	Water	SM 2540C	
MB 180-310562/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310562/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 310565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total/NA	Water	SM 2540C	
180-103742-2	WGWA-2	Total/NA	Water	SM 2540C	
180-103742-3	WGWA-3	Total/NA	Water	SM 2540C	
180-103742-4	WGWA-4	Total/NA	Water	SM 2540C	
180-103742-8	WGWA-18	Total/NA	Water	SM 2540C	
180-103742-9	EB-1 3-17-20	Total/NA	Water	SM 2540C	
MB 180-310565/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310565/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 310587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-5	WGWA-5	Total/NA	Water	SM 2540C	
MB 180-310587/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310587/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 310664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-10	DUPLICATE 1 3-17-20	Total/NA	Water	SM 2540C	
MB 180-310664/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-310664/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 310666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-11	WGWC-11	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	

Eurofins TestAmerica, Pittsburgh

QC Association Summary


Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-1

Field Service / Mobile Lab

Analysis Batch: 310781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total/NA	Water	Field Sampling	
180-103742-2	WGWA-2	Total/NA	Water	Field Sampling	
180-103742-3	WGWA-3	Total/NA	Water	Field Sampling	
180-103742-4	WGWA-4	Total/NA	Water	Field Sampling	
180-103742-5	WGWA-5	Total/NA	Water	Field Sampling	
180-103742-6	WGWA-6	Total/NA	Water	Field Sampling	
180-103742-7	WGWA-7	Total/NA	Water	Field Sampling	
180-103742-8	WGWA-18	Total/NA	Water	Field Sampling	
180-103742-11	WGWC-11	Total/NA	Water	Field Sampling	

Client Information Client Contact: Jojo Abraham Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: PO #: SCS10347656 WO #: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Lab P.M.: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)		Camer Tracking No(s): ACC 9 TA-AIL Job #: 1 of 1		COC No: Page:						
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSOW#:		Analysis Requested  180-103742 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note: Total Number of containers:						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App. III Metals	CI, F, SO ₄ & TDS	Detected App IV Metals (See list below)	Radium 226 & 228 (SM-846 9315/9320)	pH	Special Instructions/Note:
WGWA-1	3-16-20	1415	G	W	N	N	X	X	X	X	5.29	
WGWA-2	3-16-20	1225	G	W	N	N	X	X	X	X	6.01	
WGWA-3	3-17-20	1135	G	W	N	N	X	X	X	X	5.61	
WGWA-4	3-17-20	1040	G	W	N	N	X	X	X	X	6.83	
WGWA-5	3-17-20	1250	G	W	N	N	X	X	X	X	5.34	
WGWA-6	3-17-20	1115	G	W	N	N	X	X	X	X	7.96	
WGWA-7	3-17-20	1405	G	W	N	N	X	X	X	X	5.32	
WGWA-18	3-17-20	1435	G	W	N	N	X	X	X	X	6.36	
EB-1 3-17-20	3-17-20	1460	G	W	N	N	X	X	X	X		
Duplicate 1 3-17-20	3-17-20	—	G	W	N	N	X	X	X	X		
WGWC-11	3-18-20	1305	G	W	N	N	X	X	X	X	5.89	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements:												
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____												
Relinquished by: ACC Date/Time: 3/18/20 1620 Company: ACC												
Relinquished by: ACC Date/Time: 3-18-20 1621 Company: ACC												
Relinquished by: ACC Date/Time: _____ Company: ACC												
Custody Seals Intact: Δ Yes Δ No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____												



Part # 159469-434 RIT EXP 07/20

eurolins

Environment Testing
TestAmerica

SHIP DATE: 18MAR20
ACTWGT: 59.35 LB
CAD: 859116/CAFE3312

N ID: LIYA (678) 966-9991
E TAYLOR
INS TESTAMERICA
MCDONOUGH DRIVE
C-10
D STATES US

AMPLE RECEIVING

JROFINS TESTAMERICA PITTS

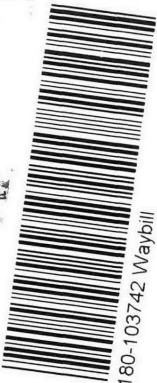
11 ALPHA DR.

IDC PARK

PITTSBURGH PA 15238

REF: ACC

180-103742 Waybill



FedEx Express



THU - 19 MAR 3:00P
STANDARD OVERNIGHT

4 of 4

1516 9323 1995

1516 9323 1962

NA AGCA

15238
PIT

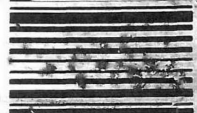
PA-US

Uncorrected temp

Thermometer ID 17

CF Initials BS

PT-WI-SR-001 effective 11/8/18



Part # 159469-434 RIT EXP 07/20

eurolins

Environment Testing
TestAmerica

SHIP DATE: 18MAR20
ACTWGT: 59.35 LB
CAD: 859116/CAFE3312

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
5500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

AMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH

301 ALPHA DR.

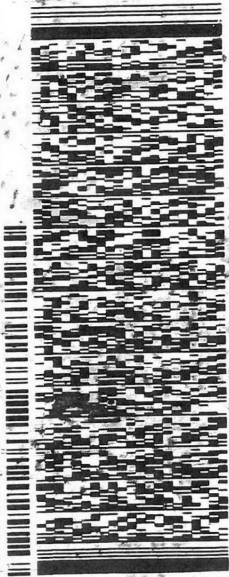
RIDC PARK

PITTSBURGH PA 15238

(412) 963-7068

REF: ACC

FedEx Express



THU - 19 MAR 3:00P
STANDARD OVERNIGHT

1 of 4

1516 9323 1962

MASTER

NA AGCA

15238
PIT

PA-US

5.4

17

Uncorrected temp

Thermometer ID

CF Initials BS

PT-WI-SR-001 effective 11/8/18



1
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5
6
7
8
9
10
11
12
13

93-434 RIT-EXP 07/20

Environment Testing
TestAmerica

SHIP DATE: 18MAR20
ACT WGT: 59.35 LB
CAD: 859116/CAFE3312

BILL RECIPIENT

(78) 966-9991

ICA
IVE
3

TO: CIEVING
TESTAMERICA PITTSBURGH
DR.

GH PA 15238

555C2/64F0/NSA2



THU - 19 MAR 3:00P
STANDARD OVERNIGHT

323 1984

0201

15238
PIT

Uncorrected temp
Thermometer ID

Initials

PT-WI-SR-001 effective 11/8/18

1469-434 RIT EXP 07/20



Environment Testing
TestAmerica

SHIP DATE: 18MAR20
ACT WGT: 59.35 LB
CAD: 859116/CAFE3312

BILL RECIPIENT

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
8500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO: SAMPLE RECIEVING

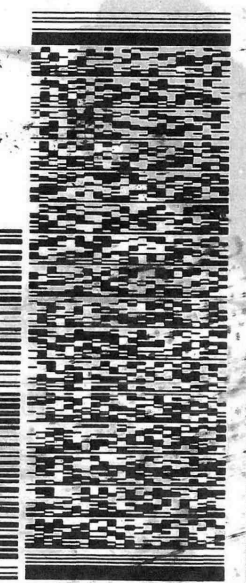
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK

PITTSBURGH PA 15238

(412) 963-7068

REF: ACC

555C2/64F0/NSA2



THU - 19 MAR 3:00P
STANDARD OVERNIGHT

MPS# 1516 9323 1973
0263

Mstr# 1516 9323 1962

0201

15238
PIT

Uncorrected temp
Thermometer ID

Initials

PT-WI-SR-001 effective 11/8/18

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103742-1

Login Number: 103742

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: 180-103742-2

Client Project/Site: CCR - Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
4/28/2020 4:16:03 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

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

LINKS

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results through
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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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Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Job ID: 180-103742-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-103742-2

Comments

No additional comments.

Receipt

The samples were received on 3/19/2020 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 2.9° C and 3.9° C.

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.

WGWA-1 (180-103742-1), WGWA-2 (180-103742-2), WGWA-3 (180-103742-3), WGWA-4 (180-103742-4), WGWA-5 (180-103742-5), WGWA-6 (180-103742-6), WGWA-7 (180-103742-7), WGWA-18 (180-103742-8), EB-1 3-17-20 (180-103742-9), DUPLICATE 1 3-17-20 (180-103742-10), WGWC-11 (180-103742-11), (LCS 160-465458/1-A), (MB 160-465458/22-A), (180-103766-A-3-A) and (180-103766-A-3-B 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.

WGWA-1 (180-103742-1), WGWA-2 (180-103742-2), WGWA-3 (180-103742-3), WGWA-4 (180-103742-4), WGWA-5 (180-103742-5), WGWA-6 (180-103742-6), WGWA-7 (180-103742-7), WGWA-18 (180-103742-8), EB-1 3-17-20 (180-103742-9), DUPLICATE 1 3-17-20 (180-103742-10), WGWC-11 (180-103742-11), (LCS 160-468060/1-A), (LCSD 160-468060/2-A) and (MB 160-468060/20-A)

Method PrecSep_0: Radium 228 Prep Batch 160-468060:

The following samples were prepared at a reduced aliquot due to limited volume: WGWA-1 (180-103742-1), WGWA-2 (180-103742-2), WGWA-3 (180-103742-3), WGWA-4 (180-103742-4), WGWA-5 (180-103742-5), WGWA-6 (180-103742-6), WGWA-7 (180-103742-7), WGWA-18 (180-103742-8), EB-1 3-17-20 (180-103742-9), DUPLICATE 1 3-17-20 (180-103742-10) and WGWC-11 (180-103742-11).

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

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.
▫	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: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103742-1	WGWA-1	Water	03/16/20 14:15	03/19/20 08:30	
180-103742-2	WGWA-2	Water	03/16/20 12:25	03/19/20 08:30	
180-103742-3	WGWA-3	Water	03/17/20 11:35	03/19/20 08:30	
180-103742-4	WGWA-4	Water	03/17/20 10:40	03/19/20 08:30	
180-103742-5	WGWA-5	Water	03/17/20 12:50	03/19/20 08:30	
180-103742-6	WGWA-6	Water	03/17/20 11:15	03/19/20 08:30	
180-103742-7	WGWA-7	Water	03/17/20 14:05	03/19/20 08:30	
180-103742-8	WGWA-18	Water	03/17/20 14:35	03/19/20 08:30	
180-103742-9	EB-1 3-17-20	Water	03/17/20 14:00	03/19/20 08:30	
180-103742-10	DUPLICATE 1 3-17-20	Water	03/17/20 00:00	03/19/20 08:30	
180-103742-11	WGWC-11	Water	03/18/20 13:05	03/19/20 08:30	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-103742-1

Date Collected: 03/16/20 14:15

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			1000.57 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			749.96 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468602	04/22/20 16:29	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-103742-2

Date Collected: 03/16/20 12:25

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			1000.69 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			749.86 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468602	04/22/20 16:29	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-103742-3

Date Collected: 03/17/20 11:35

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			749.50 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468602	04/22/20 16:29	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-103742-4

Date Collected: 03/17/20 10:40

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			1000.81 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: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-103742-4

Date Collected: 03/17/20 10:40

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			749.29 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468602	04/22/20 16:29	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-103742-5

Date Collected: 03/17/20 12:50

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			1000.17 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			749.27 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468602	04/22/20 16:30	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-103742-6

Date Collected: 03/17/20 11:15

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			1000.09 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 05:19	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.73 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468602	04/22/20 16:30	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-103742-7

Date Collected: 03/17/20 14:05

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			1000.87 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 05:19	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.30 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468602	04/22/20 16:30	AJD	TAL SL
Instrument ID: GFPCPURPLE										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-103742-7

Date Collected: 03/17/20 14:05

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	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL

Client Sample ID: WGWA-18

Lab Sample ID: 180-103742-8

Date Collected: 03/17/20 14:35

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			1000.50 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 05:19	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.72 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468601	04/22/20 16:35	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: EB-1 3-17-20

Lab Sample ID: 180-103742-9

Date Collected: 03/17/20 14:00

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			1000.61 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 07:24	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.78 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468601	04/22/20 16:35	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: DUPLICATE 1 3-17-20

Lab Sample ID: 180-103742-10

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			1000.64 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 07:24	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.80 mL	1.0 g	468060	04/19/20 12:26	MNH	TAL SL
Total/NA	Analysis	9320		1			468601	04/22/20 16:35	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			468673	04/23/20 08:09	SMP	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-103742-11

Date Collected: 03/18/20 13:05

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			1000.82 mL	1.0 g	465458	03/24/20 13:03	RBR	TAL SL
Total/NA	Analysis	9315		1			467823	04/15/20 07:24	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.69 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										

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

MNH = Molly Howard

RBR = Rachael Ratcliff

Batch Type: Analysis

AJD = Audra DeMariano

CJQ = Caleb Quinn

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWA-1

Date Collected: 03/16/20 14:15

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103742-1

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	0.0757	U	0.101	0.101	1.00	0.169	pCi/L	03/24/20 13:03	04/15/20 05:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		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	0.318	U	0.351	0.352	1.00	0.576	pCi/L	04/19/20 12:26	04/22/20 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					04/19/20 12:26	04/22/20 16:29	1
Y Carrier	90.1		40 - 110					04/19/20 12:26	04/22/20 16:29	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	0.394	U	0.365	0.366	2.00	0.576	pCi/L		04/23/20 08:09	1

Client Sample ID: WGWA-2

Date Collected: 03/16/20 12:25

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103742-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0310	U	0.0703	0.0703	1.00	0.129	pCi/L	03/24/20 13:03	04/15/20 05:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		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	0.258	U	0.397	0.398	1.00	0.668	pCi/L	04/19/20 12:26	04/22/20 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					04/19/20 12:26	04/22/20 16:29	1
Y Carrier	87.9		40 - 110					04/19/20 12:26	04/22/20 16:29	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-103742-2

Date Collected: 03/16/20 12:25

Matrix: Water

Date Received: 03/19/20 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	0.289	U	0.403	0.404	2.00	0.668	pCi/L		04/23/20 08:09	1

Client Sample ID: WGWA-3

Lab Sample ID: 180-103742-3

Date Collected: 03/17/20 11:35

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	-0.0550	U	0.0725	0.0726	1.00	0.173	pCi/L	03/24/20 13:03	04/15/20 05:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		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	-0.0840	U	0.314	0.314	1.00	0.579	pCi/L	04/19/20 12:26	04/22/20 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		40 - 110					04/19/20 12:26	04/22/20 16:29	1
Y Carrier	89.3		40 - 110					04/19/20 12:26	04/22/20 16:29	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	-0.139	U	0.322	0.322	2.00	0.579	pCi/L		04/23/20 08:09	1

Client Sample ID: WGWA-4

Lab Sample ID: 180-103742-4

Date Collected: 03/17/20 10:40

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	0.462		0.158	0.163	1.00	0.154	pCi/L	03/24/20 13:03	04/15/20 05:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					03/24/20 13:03	04/15/20 05:18	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWA-4

Date Collected: 03/17/20 10:40

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103742-4

Matrix: Water

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.502	U	0.388	0.391	1.00	0.615	pCi/L	04/19/20 12:26	04/22/20 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					04/19/20 12:26	04/22/20 16:29	1
Y Carrier	90.8		40 - 110					04/19/20 12:26	04/22/20 16:29	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	0.964		0.419	0.424	2.00	0.615	pCi/L		04/23/20 08:09	1

Client Sample ID: WGWA-5

Date Collected: 03/17/20 12:50

Date Received: 03/19/20 08:30

Lab Sample ID: 180-103742-5

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	0.00752	U	0.0681	0.0681	1.00	0.137	pCi/L	03/24/20 13:03	04/15/20 05:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		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	0.200	U	0.344	0.344	1.00	0.585	pCi/L	04/19/20 12:26	04/22/20 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		40 - 110					04/19/20 12:26	04/22/20 16:30	1
Y Carrier	89.7		40 - 110					04/19/20 12:26	04/22/20 16:30	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	0.207	U	0.351	0.351	2.00	0.585	pCi/L		04/23/20 08:09	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-103742-6

Date Collected: 03/17/20 11:15

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	2.86		0.337	0.424	1.00	0.157	pCi/L	03/24/20 13:03	04/15/20 05:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					03/24/20 13:03	04/15/20 05:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.02		0.689	0.884	1.00	0.548	pCi/L	04/19/20 12:26	04/22/20 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110					04/19/20 12:26	04/22/20 16:30	1
Y Carrier	91.2		40 - 110					04/19/20 12:26	04/22/20 16:30	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	8.88		0.767	0.980	2.00	0.548	pCi/L		04/23/20 08:09	1

Client Sample ID: WGWA-7

Lab Sample ID: 180-103742-7

Date Collected: 03/17/20 14:05

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	0.142	U	0.108	0.109	1.00	0.158	pCi/L	03/24/20 13:03	04/15/20 05:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					03/24/20 13:03	04/15/20 05:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.117	U	0.362	0.362	1.00	0.626	pCi/L	04/19/20 12:26	04/22/20 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					04/19/20 12:26	04/22/20 16:30	1
Y Carrier	93.5		40 - 110					04/19/20 12:26	04/22/20 16:30	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-103742-7

Date Collected: 03/17/20 14:05

Matrix: Water

Date Received: 03/19/20 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	0.258	U	0.378	0.378	2.00	0.626	pCi/L		04/23/20 08:09	1

Client Sample ID: WGWA-18

Lab Sample ID: 180-103742-8

Date Collected: 03/17/20 14:35

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	0.135	U	0.108	0.108	1.00	0.160	pCi/L	03/24/20 13:03	04/15/20 05:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					03/24/20 13:03	04/15/20 05:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.465	U	0.436	0.438	1.00	0.707	pCi/L	04/19/20 12:26	04/22/20 16:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110					04/19/20 12:26	04/22/20 16:35	1
Y Carrier	92.7		40 - 110					04/19/20 12:26	04/22/20 16:35	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	0.600	U	0.449	0.451	2.00	0.707	pCi/L		04/23/20 08:09	1

Client Sample ID: EB-1 3-17-20

Lab Sample ID: 180-103742-9

Date Collected: 03/17/20 14:00

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	-0.00279	U	0.0678	0.0678	1.00	0.141	pCi/L	03/24/20 13:03	04/15/20 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					03/24/20 13:03	04/15/20 07:24	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: EB-1 3-17-20

Lab Sample ID: 180-103742-9

Date Collected: 03/17/20 14:00

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	0.167	U	0.369	0.369	1.00	0.631	pCi/L	04/19/20 12:26	04/22/20 16:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					04/19/20 12:26	04/22/20 16:35	1
Y Carrier	92.7		40 - 110					04/19/20 12:26	04/22/20 16:35	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	0.165	U	0.375	0.375	2.00	0.631	pCi/L		04/23/20 08:09	1

Client Sample ID: DUPLICATE 1 3-17-20

Lab Sample ID: 180-103742-10

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	0.0290	U	0.0778	0.0779	1.00	0.145	pCi/L	03/24/20 13:03	04/15/20 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					03/24/20 13:03	04/15/20 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0390	U	0.358	0.358	1.00	0.639	pCi/L	04/19/20 12:26	04/22/20 16:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					04/19/20 12:26	04/22/20 16:35	1
Y Carrier	90.8		40 - 110					04/19/20 12:26	04/22/20 16:35	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	-0.0100	U	0.366	0.366	2.00	0.639	pCi/L		04/23/20 08:09	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-103742-11

Date Collected: 03/18/20 13:05

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	0.0347	U	0.0781	0.0782	1.00	0.142	pCi/L	03/24/20 13:03	04/15/20 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					03/24/20 13:03	04/15/20 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.831		0.435	0.442	1.00	0.660	pCi/L	04/19/20 12:26	04/22/20 16:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		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	0.866		0.442	0.449	2.00	0.660	pCi/L		04/23/20 08:09	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

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		
	%Yield	Qualifier								
Ba Carrier	98.4		40 - 110			03/24/20 13:03	04/15/20 07:24	1		

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 LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	86.5		40 - 110						

Method: 9320 - Radium-228 (GFPC)

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 MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
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	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	11.9	11.88		1.56	1.00	0.792	pCi/L	100	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	79.9		40 - 110						
Y Carrier	69.2		40 - 110						

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2

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

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	11.9	11.96		1.45	1.00	0.590	pCi/L	101	75 - 125	0.03	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	81.7		40 - 110
Y Carrier	91.2		40 - 110

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103742-2


Rad

Prep Batch: 465458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total/NA	Water	PrecSep-21	
180-103742-2	WGWA-2	Total/NA	Water	PrecSep-21	
180-103742-3	WGWA-3	Total/NA	Water	PrecSep-21	
180-103742-4	WGWA-4	Total/NA	Water	PrecSep-21	
180-103742-5	WGWA-5	Total/NA	Water	PrecSep-21	
180-103742-6	WGWA-6	Total/NA	Water	PrecSep-21	
180-103742-7	WGWA-7	Total/NA	Water	PrecSep-21	
180-103742-8	WGWA-18	Total/NA	Water	PrecSep-21	
180-103742-9	EB-1 3-17-20	Total/NA	Water	PrecSep-21	
180-103742-10	DUPLICATE 1 3-17-20	Total/NA	Water	PrecSep-21	
180-103742-11	WGWC-11	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	

Prep Batch: 468060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103742-1	WGWA-1	Total/NA	Water	PrecSep_0	
180-103742-2	WGWA-2	Total/NA	Water	PrecSep_0	
180-103742-3	WGWA-3	Total/NA	Water	PrecSep_0	
180-103742-4	WGWA-4	Total/NA	Water	PrecSep_0	
180-103742-5	WGWA-5	Total/NA	Water	PrecSep_0	
180-103742-6	WGWA-6	Total/NA	Water	PrecSep_0	
180-103742-7	WGWA-7	Total/NA	Water	PrecSep_0	
180-103742-8	WGWA-18	Total/NA	Water	PrecSep_0	
180-103742-9	EB-1 3-17-20	Total/NA	Water	PrecSep_0	
180-103742-10	DUPLICATE 1 3-17-20	Total/NA	Water	PrecSep_0	
180-103742-11	WGWC-11	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	

Client Information Client Contact: Jojo Abraham Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: PO #: SCS10347656 WO #: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Lab P.M.: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)		Camer Tracking No(s): ACC 7A-AIL Job #: 1 of 1		COC No: Page:													
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSOW#:		Analysis Requested  180-103742 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note: Total Number of containers:													
Sample Identification Sample Identification WGWA-1 WGWA-2 WGWA-3 WGWA-4 WGWA-5 WGWA-6 WGWA-7 WGWA-18 EB-1 3-17-20 Duplicate 1 3-17-20 WGWC-11		Sample Date 3-16-20 3-16-20 3-17-20 3-17-20 3-17-20 3-17-20 3-17-20 3-17-20 3-17-20 3-18-20		Sample Time 1415 1225 1135 1040 1250 1115 1405 1435 1400 — 1305		Sample Type (C=Comp, G=grab) G G G G G G G G G G G		Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air) W W W W W W W W W W W		Field Filtered Sample (Yes or No) N N N N N N N N N N N		App. III Metals N X X X X X X X X X X X X		Detected App IV Metals (See list below) Radium 226 & 228 (SM-846 9315/9320)		EPA 300.0 & SM 2540C X X X X X X X X X X X X		pH= 5.29 6.01 5.61 6.83 5.34 7.96 5.32 6.36 5.89	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:													
Empty Kit Relinquished by:		Date:		Method of Shipment:		Relinquished by: ACC Date/Time: 3/18/20 1620 Company:		Relinquished by: ACC Date/Time: 3-18-20 1621 Company:		Relinquished by: ACC Date/Time: 3-18-20 1620 Company:		Relinquished by: ACC Date/Time: 3/14/20 830 Company:		Relinquished by: ACC Date/Time: 3/14/20 830 Company:					
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Date/Time: 3-18-20 1620 Company:		Date/Time: 3/14/20 830 Company:		Date/Time: 3/14/20 830 Company:		Date/Time: 3-18-20 1620 Company:		Date/Time: 3/14/20 830 Company:					

Part # 159469-434 RIT EXP 07/20

eurolins

Environment Testing
TestAmerica

N ID: LIYA (678) 966-9991
E TAYLOR
INS TESTAMERICA
MCDONOUGH DRIVE
C-10
D STATES US
SHIP DATE: 18MAR20
ACTWGT: 59.35 LB
CAD: 8591116/CAFE3312
BILL RECIPIENT

AMPLE RECEIVING
UROFINS TESTAMERICA PITTS
1 ALPHA DR.
IDC PARK
PITTSBURGH PA 15238
88-7068
ACC



180-103742 Waybill



4 of 4
1516 9323 1995
1516 9323 1962
THU - 19 MAR 3:00P
STANDARD OVERNIGHT
[0201]

AGCA
15238
PA-US
PIT

Uncorrected temp
Thermometer ID 17
CF Initials JS
PT-WI-SR-001 effective 11/8/18

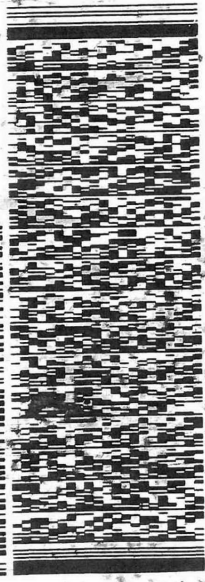
159469-434 RIT EXP 07/20

eurolins

Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
5500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US
SHIP DATE: 18MAR20
ACTWGT: 59.35 LB
CAD: 8591116/CAFE3312
BILL RECIPIENT

AMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC



1 of 4
1516 9323 1962
MASTER ##
THU - 19 MAR 3:00P
STANDARD OVERNIGHT
[0201]

NA AGCA
15238
PA-US
PIT

Uncorrected temp
Thermometer ID 17
CF Initials JS
PT-WI-SR-001 effective 11/8/18

1
2
3
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5
6
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11
12
13

Environment Testing
TestAmerica

SHIP DATE: 18MAR20
ACT WGT: 59.35 LB
CAD: 859116/CAFE3312

(378) 966-9991
ICA
IVE
3

BILL RECIPIENT

TO: CIEVING
TESTAMERICA PITTSBURGH
DR.
GH PA 15238

555C2/64F0/NSA2



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

4
323 1984
523 1962

uncorrected temp
Thermometer ID
CF 6 Initials TS

PT-WI-SR-001 effective 11/8/18

eurofins

Environment Testing
TestAmerica

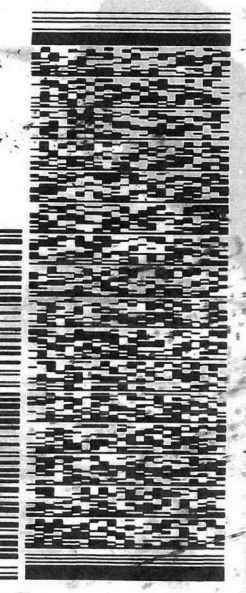
SHIP DATE: 18MAR20
ACT WGT: 59.35 LB
CAD: 859116/CAFE3312

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
8500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

TO: SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC

555C2/64F0/NSA2



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

2 of 4
MPS# 1516 9323 1973
0263
Mstr# 1516 9323 1962

NA AGCA

uncorrected temp
Thermometer ID
CF 6 Initials TS

PT-WI-SR-001 effective 11/8/18



Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: TestAmerica Laboratories, Inc. Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com		Carrier Tracking No(s): 180-388211.1 Page: Page 1 of 2	
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		State of Origin: Georgia Job #: 180-103742-2		Accreditations Required (See note): Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDTA Z - other (specify)	
Due Date Requested: 4/17/2020 TAT Requested (days):		Analysis Requested		Total Number of Containers	
PO #:		Perform MS/MSD (Yes or No)		9320_Ra228/PreSep_0 (MOD) Copy Analytes	
WO #:		Field Filtered Sample (Yes or No)		9315_Ra228/PreSep_21 (MOD) Copy Analytes	
Project #: 18019922		Preservation Code:		Ra226Ra228_GFPcI (MOD) Local Method	
SSOWh:		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, AA=pl)	
Site: Wansley CCR		Sample Time		Matrix	
Sample Identification - Client ID (Lab ID)		Sample Date		Preservation Code:	
WGWA-1 (180-103742-1)		3/16/20 Eastern		Water	
WGWA-2 (180-103742-2)		3/16/20 Eastern		Water	
WGWA-3 (180-103742-3)		3/17/20 Eastern		Water	
WGWA-4 (180-103742-4)		3/17/20 Eastern		Water	
WGWA-5 (180-103742-5)		3/17/20 Eastern		Water	
WGWA-6 (180-103742-6)		3/17/20 Eastern		Water	
WGWA-7 (180-103742-7)		3/17/20 Eastern		Water	
WGWA-18 (180-103742-8)		3/17/20 Eastern		Water	
EB-1 3-17-20 (180-103742-9)		3/17/20 Eastern		Water	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica					
Possible Hazard Identification Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Relinquished by: <i>[Signature]</i>		Date: 3/20/20 17:00		Company: ETA STL	
Relinquished by: FE		Date/Time: 3/16/20 08:37		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record



Client Information (Sub Contract Lab)			Sampler:	Lab PM:	Carrier Tracking No(s):	COG No:					
Client Contact:			Bortot, Veronica	180-388211.2							
Shipping/Receiving			Phone:	E-Mail:	State of Origin:	Page:					
Company:			TestAmerica Laboratories, Inc.	veronica.bortot@testamericainc.com	Georgia	Page 2 of 2					
Address:			Accreditations Required (See note):								
13715 Rider Trail North,			180-103742-2								
City:	Due Date Requested:										
Earth City	4/17/2020										
State, Zip:	TAT Requested (days):										
MO, 63045											
Phone:	PO #:										
314-298-8566(Tel) 314-298-8757(Fax)											
Email:	WO #:										
Project Name:	Project #:										
CCR - Plant Wansley	18019922										
Site:	SSOW#:										
Wansley CCR											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 (MOD) Copy Analytes	9315_Ra226/PreSep_21 (MOD) Copy Analytes	Ra226Ra228_GFPC/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
DUPLICATE 1 3-17-20 (180-103742-10)	3/17/20	Eastern		Water	X	X	X	X	X	1	
WGC-11 (180-103742-11)	3/18/20	13:05 Eastern		Water	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 2											
Time:											
Method of Shipment:											
Received by: FE											
Received by: Manti Konings											
Received by:											
Cooler Temperature(s) °C and Other Remarks:											
Date: 5/10/20 17:00											
Date Time: 5/10/20 17:00											
Date Time: 5/10/20 17:37											
Date Time: 5/10/20 17:37											
Company: FE											
Company: Manti Konings											
Company: FE A STL											
Company:											
Custody Seals Intact: Custody Seal No.:											
Δ Yes Δ No											

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

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Relinquished by: FE

Relinquished by: Manti Konings

Relinquished by:

Custody Seals Intact: Custody Seal No.:

Δ Yes Δ No

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103742-2

Login Number: 103742

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: 180-103742-2

Login Number: 103742

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: 180-103809-1

Login Number: 103809

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

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

Laboratory Job ID: 180-103809-1

Client Project/Site: CCR - Plant Wansley Ash Pond
Revision: 3

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
6/1/2020 11:46:26 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

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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QC Association Summary	32
Chain of Custody	35

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Job ID: 180-103809-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative

060120 Revised report to remove Antimony per client request. This report replaces the report previously issued on 052920.

052920 Revised report to remove the following samples at client request: WCWC-19 (180-103809-10) and EB-2 3-10-20 (180-103809-11). Original request and reason is on file. This report replaces the report previously issued on 043020.

04-30-20 Revised : to reanalyze samples 10 and 11

Receipt

The samples were received on 3/20/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 1.4° C and 1.5° C.

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) and the low level continuing calibration verification (CCVL) associated with batch 180-312904 recovered above the upper control limit for boron and the continuing calibration blank (CCB) was also greater than the reporting limit (RL) for boron. The samples associated with this CCV were below the RL for boron; therefore, the data have been reported with this narrative.

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

Field Service

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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.

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103809-1	WGWC-8	Water	03/19/20 12:49	03/20/20 09:00	
180-103809-2	WGWC-9	Water	03/19/20 11:22	03/20/20 09:00	
180-103809-3	WGWC-10	Water	03/18/20 14:55	03/20/20 09:00	
180-103809-4	WGWC-12	Water	03/18/20 11:45	03/20/20 09:00	
180-103809-5	WGWC-13	Water	03/19/20 11:15	03/20/20 09:00	
180-103809-6	WGWC-14A	Water	03/19/20 13:35	03/20/20 09:00	
180-103809-7	WGWC-15	Water	03/18/20 10:35	03/20/20 09:00	
180-103809-8	WGWC-16	Water	03/18/20 11:45	03/20/20 09:00	
180-103809-9	WGWC-17	Water	03/18/20 15:11	03/20/20 09:00	
180-103809-12	DUPLICATE 2	Water	03/18/20 00:00	03/20/20 09:00	
180-103809-13	FB-1 3-18-20	Water	03/18/20 14:55	03/20/20 09:00	
180-103809-14	FB-2 3-19-20	Water	03/19/20 12:30	03/20/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-103809-1

Date Collected: 03/19/20 12:49

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			312087	04/05/20 15:24	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312254	04/08/20 05:11	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312686	04/10/20 15:12	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312904	04/14/20 11:23	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313029	04/15/20 13:43	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311010	03/24/20 19:39	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311297	03/26/20 19:37	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/19/20 12:49	FDS	TAL PIT

Client Sample ID: WGWC-9

Lab Sample ID: 180-103809-2

Date Collected: 03/19/20 11:22

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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			312087	04/05/20 15:55	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			312254	04/08/20 05:27	SAC	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312686	04/10/20 15:29	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312904	04/14/20 11:35	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313029	04/15/20 13:55	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311010	03/24/20 19:39	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311297	03/26/20 19:40	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-9

Date Collected: 03/19/20 11:22

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103809-2

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	Field Sampling		1			310781	03/19/20 11:22	FDS	TAL PIT

Client Sample ID: WGWC-10

Date Collected: 03/18/20 14:55

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103809-3

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: CHICS2100B		1			312144	04/07/20 01:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312686	04/10/20 15:32	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312904	04/14/20 11:38	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313029	04/15/20 13:58	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311010	03/24/20 19:39	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311297	03/26/20 19:41	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 14:55	FDS	TAL PIT

Client Sample ID: WGWC-12

Date Collected: 03/18/20 11:45

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103809-4

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			312144	04/07/20 03:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312686	04/10/20 15:34	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312904	04/14/20 11:40	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313029	04/15/20 14:00	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311010	03/24/20 19:39	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311297	03/26/20 19:42	NAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-103809-4

Date Collected: 03/18/20 11:45

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		1			310781	03/18/20 11:45	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-103809-5

Date Collected: 03/19/20 11:15

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		1			312254	04/07/20 21:22	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312686	04/10/20 15:37	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312904	04/14/20 11:48	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313029	04/15/20 14:08	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	311010	03/24/20 19:39	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311297	03/26/20 19:43	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			310781	03/19/20 11:15	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-103809-6

Date Collected: 03/19/20 13:35

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		1			312254	04/07/20 21:38	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312686	04/10/20 15:39	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312904	04/14/20 11:50	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313029	04/15/20 14:10	RJR	TAL PIT
Instrument ID: NEMO										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-103809-6

Date Collected: 03/19/20 13:35

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	7470A			50 mL	50 mL	311010	03/24/20 19:39	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311297	03/26/20 19:44	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			310781	03/19/20 13:35	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WGWC-15

Lab Sample ID: 180-103809-7

Date Collected: 03/18/20 10:35

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		1			312144	04/07/20 03:52	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312686	04/10/20 15:42	RJR	TAL PIT
		Instrument ID: NEMO								
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312904	04/14/20 11:53	RJR	TAL PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			50 mL	50 mL	311010	03/24/20 19:39	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311297	03/26/20 19:45	NAM	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			310781	03/18/20 10:35	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WGWC-16

Lab Sample ID: 180-103809-8

Date Collected: 03/18/20 11:45

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		1			312143	04/07/20 01:01	MJH	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312686	04/10/20 15:44	RJR	TAL PIT
		Instrument ID: NEMO								
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312904	04/14/20 11:55	RJR	TAL PIT
		Instrument ID: NEMO								
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			313029	04/15/20 14:13	RJR	TAL PIT
		Instrument ID: NEMO								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-103809-8

Date Collected: 03/18/20 11:45

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	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311297	03/26/20 19:52	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 11:45	FDS	TAL PIT

Client Sample ID: WGWC-17

Lab Sample ID: 180-103809-9

Date Collected: 03/18/20 15:11

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: CHICS2100B		1			312144	04/07/20 04:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312686	04/10/20 15:46	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312904	04/14/20 11:57	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			313029	04/15/20 14:15	RJR	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			311297	03/26/20 19:53	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	310934	03/24/20 08:03	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			310781	03/18/20 15:11	FDS	TAL PIT

Client Sample ID: DUPLICATE 2

Lab Sample ID: 180-103809-12

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 01:17	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312686	04/10/20 15:59	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			312904	04/14/20 12:05	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: DUPLICATE 2

Lab Sample ID: 180-103809-12

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	Prep	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311297	03/26/20 19:56	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-1 3-18-20

Lab Sample ID: 180-103809-13

Date Collected: 03/18/20 14:55

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		1			312143	04/06/20 21:56	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312686	04/10/20 16:01	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312904	04/14/20 12:07	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311297	03/26/20 19:57	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310933	03/24/20 08:00	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-2 3-19-20

Lab Sample ID: 180-103809-14

Date Collected: 03/19/20 12:30

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		1			312254	04/07/20 22:10	SAC	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312686	04/10/20 16:04	RJR	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	311071	03/25/20 11:00	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			312904	04/14/20 12:10	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	311012	03/24/20 19:42	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			311297	03/26/20 19:58	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	310934	03/24/20 08:03	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: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

SAC = Shawn Clemente

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-103809-1

Date Collected: 03/19/20 12:49

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	98		1.0	0.32	mg/L			04/05/20 15:24	1
Fluoride	0.057	J	0.10	0.026	mg/L			04/08/20 05:11	1
Sulfate	200		1.0	0.38	mg/L			04/05/20 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00071	J	0.0010	0.00031	mg/L		03/25/20 11:00	04/10/20 15:12	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:12	1
Beryllium	0.0028		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:23	1
Boron	2.2		0.080	0.039	mg/L		03/25/20 11:00	04/15/20 13:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:12	1
Calcium	79		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:12	1
Cobalt	0.00092	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:12	1
Lead	0.00016	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:12	1
Selenium	0.0037	J	0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:12	1
Lithium	0.015		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:23	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		03/24/20 19:39	03/26/20 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	540		10	10	mg/L			03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.43				SU			03/19/20 12:49	1

Client Sample ID: WGWC-9

Lab Sample ID: 180-103809-2

Date Collected: 03/19/20 11:22

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	2.1		1.0	0.32	mg/L			04/05/20 15:55	1
Fluoride	1.0		0.10	0.026	mg/L			04/08/20 05:27	1
Sulfate	45		1.0	0.38	mg/L			04/05/20 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/25/20 11:00	04/10/20 15:29	1
Barium	0.0021	J	0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:29	1
Beryllium	0.00056	J	0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:35	1
Boron	0.55		0.080	0.039	mg/L		03/25/20 11:00	04/15/20 13:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:29	1
Calcium	9.3		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:29	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-103809-2

Date Collected: 03/19/20 11:22

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
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:29	1
Molybdenum	0.0042	J	0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:29	1
Selenium	0.0033	J	0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:29	1
Lithium	0.039		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:35	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		03/24/20 19:39	03/26/20 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.64				SU			03/19/20 11:22	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-103809-3

Date Collected: 03/18/20 14:55

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 01:30	1
Fluoride	0.052	J	0.10	0.026	mg/L			04/07/20 01:30	1
Sulfate	2.1		1.0	0.38	mg/L			04/07/20 01:30	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 11:00	04/10/20 15:32	1
Barium	0.035		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:38	1
Boron	0.049	J	0.080	0.039	mg/L		03/25/20 11:00	04/15/20 13:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:32	1
Calcium	7.5		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:32	1
Cobalt	0.0012	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:32	1
Lead	0.00021	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:32	1
Lithium	0.0071		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:38	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		03/24/20 19:39	03/26/20 19:41	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-103809-3

Date Collected: 03/18/20 14:55

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	58		10	10	mg/L			03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.40				SU			03/18/20 14:55	1

Client Sample ID: WGWC-12

Lab Sample ID: 180-103809-4

Date Collected: 03/18/20 11:45

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	3.2		1.0	0.32	mg/L			04/07/20 03:36	1
Fluoride	0.033	J	0.10	0.026	mg/L			04/07/20 03:36	1
Sulfate	12		1.0	0.38	mg/L			04/07/20 03:36	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 11:00	04/10/20 15:34	1
Barium	0.016		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:34	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:40	1
Boron	0.039	J	0.080	0.039	mg/L		03/25/20 11:00	04/15/20 14:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:34	1
Calcium	14		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:34	1
Cobalt	0.00071	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:34	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:34	1
Lithium	0.0081		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:40	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		03/24/20 19:39	03/26/20 19:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	73		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	6.94				SU			03/18/20 11:45	1

Client Sample ID: WGWC-13

Lab Sample ID: 180-103809-5

Date Collected: 03/19/20 11:15

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	1.3		1.0	0.32	mg/L			04/07/20 21:22	1
Fluoride	0.15		0.10	0.026	mg/L			04/07/20 21:22	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-103809-5

Date Collected: 03/19/20 11:15

Matrix: Water

Date Received: 03/20/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	4.0		1.0	0.38	mg/L			04/07/20 21:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00039	J	0.0010	0.00031	mg/L		03/25/20 11:00	04/10/20 15:37	1
Barium	0.072		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:37	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:48	1
Boron	0.053	J	0.080	0.039	mg/L		03/25/20 11:00	04/15/20 14:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:37	1
Calcium	5.0		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:37	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:37	1
Molybdenum	0.0018	J	0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:37	1
Lead	0.00060	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:37	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:37	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:48	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		03/24/20 19:39	03/26/20 19:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	95		10	10	mg/L			03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.56				SU			03/19/20 11:15	1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-103809-6

Date Collected: 03/19/20 13:35

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	1.9		1.0	0.32	mg/L			04/07/20 21:38	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 21:38	1
Sulfate	1.5		1.0	0.38	mg/L			04/07/20 21:38	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		03/25/20 11:00	04/10/20 15:39	1
Barium	0.031		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:39	1
Beryllium	0.00025	J	0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:50	1
Boron	0.039	J	0.080	0.039	mg/L		03/25/20 11:00	04/15/20 14:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:39	1
Calcium	0.89		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:39	1
Cobalt	0.0039		0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:39	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-103809-6

Date Collected: 03/19/20 13:35

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
Lead	0.00017	J	0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:39	1
Thallium	0.00017	J	0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:39	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:50	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		03/24/20 19:39	03/26/20 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		10	10	mg/L			03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.49				SU			03/19/20 13:35	1

Client Sample ID: WGWC-15

Lab Sample ID: 180-103809-7

Date Collected: 03/18/20 10:35

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	1.7		1.0	0.32	mg/L			04/07/20 03:52	1
Fluoride	0.71		0.10	0.026	mg/L			04/07/20 03:52	1
Sulfate	17		1.0	0.38	mg/L			04/07/20 03:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00088	J	0.0010	0.00031	mg/L		03/25/20 11:00	04/10/20 15:42	1
Barium	0.021		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:42	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:53	1
Boron	0.071	J B ^	0.080	0.039	mg/L		03/25/20 11:00	04/14/20 11:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:42	1
Calcium	30		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:42	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:42	1
Molybdenum	0.0020	J	0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:42	1
Lithium	0.0086		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:53	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		03/24/20 19:39	03/26/20 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			03/24/20 08:03	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-103809-7

Date Collected: 03/18/20 10:35

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	7.73				SU			03/18/20 10:35	1

Client Sample ID: WGWC-16

Lab Sample ID: 180-103809-8

Date Collected: 03/18/20 11:45

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	93		1.0	0.32	mg/L			04/07/20 01:01	1
Fluoride	0.084	J	0.10	0.026	mg/L			04/07/20 01:01	1
Sulfate	120		1.0	0.38	mg/L			04/07/20 01:01	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 11:00	04/10/20 15:44	1
Barium	0.034		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:55	1
Boron	2.0		0.080	0.039	mg/L		03/25/20 11:00	04/15/20 14:13	1
Cadmium	0.00022	J	0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:44	1
Calcium	66		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:44	1
Cobalt	0.00016	J	0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:44	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:44	1
Selenium	0.0046	J	0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:44	1
Lithium	0.0057		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:55	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		03/24/20 19:42	03/26/20 19:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		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	5.08				SU			03/18/20 11:45	1

Client Sample ID: WGWC-17

Lab Sample ID: 180-103809-9

Date Collected: 03/18/20 15:11

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 04:40	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 04:40	1
Sulfate	4.2		1.0	0.38	mg/L			04/07/20 04:40	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-103809-9

Date Collected: 03/18/20 15:11

Matrix: Water

Date Received: 03/20/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00054	J	0.0010	0.00031	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Barium	0.012		0.010	0.0016	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L	-	03/25/20 11:00	04/14/20 11:57	1
Boron	0.049	J	0.080	0.039	mg/L	-	03/25/20 11:00	04/15/20 14:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Calcium	6.3		0.50	0.13	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Cobalt	0.00052	J	0.0025	0.00013	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Molybdenum	0.0024	J	0.015	0.00061	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Lead	0.00020	J	0.0010	0.00013	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L	-	03/25/20 11:00	04/10/20 15:46	1
Lithium	0.0054		0.0050	0.0034	mg/L	-	03/25/20 11:00	04/14/20 11:57	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	-	03/24/20 19:42	03/26/20 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L	-		03/24/20 08:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.28				SU	-		03/18/20 15:11	1

Client Sample ID: DUPLICATE 2

Lab Sample ID: 180-103809-12

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	2.8		1.0	0.32	mg/L	-		04/07/20 01:17	1
Fluoride	0.26		0.10	0.026	mg/L	-		04/07/20 01:17	1
Sulfate	3.6		1.0	0.38	mg/L	-		04/07/20 01:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Barium	<0.0016		0.010	0.0016	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L	-	03/25/20 11:00	04/14/20 12:05	1
Boron	0.076	J B ^	0.080	0.039	mg/L	-	03/25/20 11:00	04/14/20 12:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Calcium	17		0.50	0.13	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Cobalt	0.00020	J	0.0025	0.00013	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Molybdenum	0.0011	J	0.015	0.00061	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Lead	<0.00013		0.0010	0.00013	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L	-	03/25/20 11:00	04/10/20 15:59	1
Lithium	0.044		0.0050	0.0034	mg/L	-	03/25/20 11:00	04/14/20 12:05	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: DUPLICATE 2

Lab Sample ID: 180-103809-12

Date Collected: 03/18/20 00:00

Matrix: Water

Date Received: 03/20/20 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		03/24/20 19:42	03/26/20 19:56	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

Client Sample ID: FB-1 3-18-20

Lab Sample ID: 180-103809-13

Date Collected: 03/18/20 14:55

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			04/06/20 21:56	1
Fluoride	0.058	J	0.10	0.026	mg/L			04/06/20 21:56	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 21:56	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		03/25/20 11:00	04/10/20 16:01	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 16:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 12:07	1
Boron	0.063	J B ^	0.080	0.039	mg/L		03/25/20 11:00	04/14/20 12:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 16:01	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 16:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 16:01	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 16:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 16:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 16:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 16:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 16:01	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 12:07	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		03/24/20 19:42	03/26/20 19:57	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: FB-2 3-19-20

Lab Sample ID: 180-103809-14

Date Collected: 03/19/20 12:30

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 22:10	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 22:10	1
Sulfate	<0.38		1.0	0.38	mg/L			04/07/20 22:10	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Client Sample ID: FB-2 3-19-20

Lab Sample ID: 180-103809-14

Date Collected: 03/19/20 12:30

Matrix: Water

Date Received: 03/20/20 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		03/25/20 11:00	04/10/20 16:04	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 16:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 12:10	1
Boron	0.066	J B ^	0.080	0.039	mg/L		03/25/20 11:00	04/14/20 12:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 16:04	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 16:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 16:04	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 16:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 16:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 16:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 16:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 16:04	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 12:10	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		03/24/20 19:42	03/26/20 19:58	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 08:03	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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

Lab Sample ID: MB 180-312087/37
Matrix: Water
Analysis Batch: 312087

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			04/05/20 14:20	1
Fluoride	<0.026		0.10	0.026	mg/L			04/05/20 14:20	1
Sulfate	<0.38		1.0	0.38	mg/L			04/05/20 14:20	1

Lab Sample ID: LCS 180-312087/36
Matrix: Water
Analysis Batch: 312087

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	2.71		mg/L		108	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

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

Lab Sample ID: MB 180-312144/6
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			04/06/20 15:35	1
Fluoride	<0.026		0.10	0.026	mg/L			04/06/20 15:35	1
Sulfate	<0.38		1.0	0.38	mg/L			04/06/20 15:35	1

Lab Sample ID: LCS 180-312144/5
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	51.3		mg/L		103	90 - 110
Fluoride	2.50	2.44		mg/L		98	90 - 110
Sulfate	50.0	50.8		mg/L		102	90 - 110

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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

Lab Sample ID: 180-103809-3 MS
Matrix: Water
Analysis Batch: 312144

Client Sample ID: WGWC-10
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	25.5		mg/L		96	80 - 120
Fluoride	0.052	J	1.25	1.25		mg/L		96	80 - 120
Sulfate	2.1		25.0	25.7		mg/L		94	80 - 120

Lab Sample ID: 180-103809-3 MSD
Matrix: Water
Analysis Batch: 312144

Client Sample ID: WGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	25.7		mg/L		97	80 - 120	1	20
Fluoride	0.052	J	1.25	1.27		mg/L		98	80 - 120	2	20
Sulfate	2.1		25.0	26.0		mg/L		95	80 - 120	1	20

Lab Sample ID: MB 180-312254/6
Matrix: Water
Analysis Batch: 312254

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 17:25	1
Fluoride	<0.026		0.10	0.026	mg/L			04/07/20 17:25	1
Sulfate	<0.38		1.0	0.38	mg/L			04/07/20 17:25	1

Lab Sample ID: LCS 180-312254/5
Matrix: Water
Analysis Batch: 312254

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	47.6		mg/L		95	90 - 110
Fluoride	2.50	2.30		mg/L		92	90 - 110
Sulfate	50.0	47.5		mg/L		95	90 - 110

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

Lab Sample ID: MB 180-311071/1-A
Matrix: Water
Analysis Batch: 312686

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311071

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 11:00	04/10/20 15:08	1
Barium	<0.0016		0.010	0.0016	mg/L		03/25/20 11:00	04/10/20 15:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/25/20 11:00	04/10/20 15:08	1
Calcium	<0.13		0.50	0.13	mg/L		03/25/20 11:00	04/10/20 15:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/25/20 11:00	04/10/20 15:08	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/25/20 11:00	04/10/20 15:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/25/20 11:00	04/10/20 15:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/25/20 11:00	04/10/20 15:08	1
Antimony	<0.00038		0.0020	0.00038	mg/L		03/25/20 11:00	04/10/20 15:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/25/20 11:00	04/10/20 15:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/25/20 11:00	04/10/20 15:08	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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

Lab Sample ID: MB 180-311071/1-A
Matrix: Water
Analysis Batch: 312904

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/25/20 11:00	04/14/20 11:18	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/25/20 11:00	04/14/20 11:18	1

Lab Sample ID: MB 180-311071/1-A
Matrix: Water
Analysis Batch: 313029

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		03/25/20 11:00	04/15/20 13:39	1

Lab Sample ID: LCS 180-311071/2-A
Matrix: Water
Analysis Batch: 312686

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.996		mg/L		100	80 - 120
Barium	1.00	0.964		mg/L		96	80 - 120
Cadmium	0.500	0.483		mg/L		97	80 - 120
Calcium	25.0	25.4		mg/L		102	80 - 120
Chromium	0.500	0.479		mg/L		96	80 - 120
Cobalt	0.500	0.479		mg/L		96	80 - 120
Molybdenum	0.500	0.502		mg/L		100	80 - 120
Lead	0.500	0.492		mg/L		98	80 - 120
Antimony	0.250	0.234		mg/L		94	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	0.995		mg/L		99	80 - 120

Lab Sample ID: LCS 180-311071/2-A
Matrix: Water
Analysis Batch: 312904

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.500	0.548		mg/L		110	80 - 120
Lithium	0.500	0.553		mg/L		111	80 - 120

Lab Sample ID: LCS 180-311071/2-A
Matrix: Water
Analysis Batch: 313029

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.23		mg/L		98	80 - 120

Lab Sample ID: 180-103809-1 MS
Matrix: Water
Analysis Batch: 312686

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00071	J	1.00	0.984		mg/L		98	75 - 125
Barium	<0.0016		1.00	0.970		mg/L		97	75 - 125
Cadmium	<0.00022		0.500	0.467		mg/L		93	75 - 125

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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

Lab Sample ID: 180-103809-1 MS
Matrix: Water
Analysis Batch: 312686

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Calcium	79		25.0	108		mg/L		114	75 - 125	
Chromium	<0.0015		0.500	0.470		mg/L		94	75 - 125	
Cobalt	0.00092	J	0.500	0.469		mg/L		94	75 - 125	
Molybdenum	<0.00061		0.500	0.511		mg/L		102	75 - 125	
Lead	0.00016	J	0.500	0.481		mg/L		96	75 - 125	
Antimony	<0.00038		0.250	0.246		mg/L		99	75 - 125	
Selenium	0.0037	J	1.00	0.987		mg/L		98	75 - 125	
Thallium	<0.00015		1.00	0.965		mg/L		96	75 - 125	

Lab Sample ID: 180-103809-1 MS
Matrix: Water
Analysis Batch: 312904

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Beryllium	0.0028		0.500	0.527		mg/L		105	75 - 125	
Lithium	0.015		0.500	0.532		mg/L		103	75 - 125	

Lab Sample ID: 180-103809-1 MS
Matrix: Water
Analysis Batch: 313029

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Boron	2.2		1.25	3.64		mg/L		111	75 - 125	

Lab Sample ID: 180-103809-1 MSD
Matrix: Water
Analysis Batch: 312686

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits		RPD	Limit
Arsenic	0.00071	J	1.00	1.05		mg/L		105	75 - 125		6	20
Barium	<0.0016		1.00	1.01		mg/L		101	75 - 125		4	20
Cadmium	<0.00022		0.500	0.495		mg/L		99	75 - 125		6	20
Calcium	79		25.0	108		mg/L		113	75 - 125		0	20
Chromium	<0.0015		0.500	0.491		mg/L		98	75 - 125		4	20
Cobalt	0.00092	J	0.500	0.496		mg/L		99	75 - 125		6	20
Molybdenum	<0.00061		0.500	0.524		mg/L		105	75 - 125		2	20
Lead	0.00016	J	0.500	0.503		mg/L		101	75 - 125		5	20
Antimony	<0.00038		0.250	0.247		mg/L		99	75 - 125		0	20
Selenium	0.0037	J	1.00	1.06		mg/L		106	75 - 125		8	20
Thallium	<0.00015		1.00	0.999		mg/L		100	75 - 125		4	20

Lab Sample ID: 180-103809-1 MSD
Matrix: Water
Analysis Batch: 312904

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits		RPD	Limit
Beryllium	0.0028		0.500	0.556		mg/L		111	75 - 125		5	20
Lithium	0.015		0.500	0.567		mg/L		110	75 - 125		6	20

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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

Lab Sample ID: 180-103809-1 MSD
Matrix: Water
Analysis Batch: 313029

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 311071

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	2.2		1.25	3.61		mg/L		109	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-311010/1-A
Matrix: Water
Analysis Batch: 311297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/24/20 19:39	03/26/20 19:20	1

Lab Sample ID: LCS 180-311010/2-A
Matrix: Water
Analysis Batch: 311297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00241		mg/L		97	80 - 120

Lab Sample ID: 180-103809-7 MS
Matrix: Water
Analysis Batch: 311297

Client Sample ID: WGWC-15
Prep Type: Total/NA
Prep Batch: 311010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00010		0.00100	0.000884		mg/L		88	75 - 125

Lab Sample ID: 180-103809-7 MSD
Matrix: Water
Analysis Batch: 311297

Client Sample ID: WGWC-15
Prep Type: Total/NA
Prep Batch: 311010

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00010		0.00100	0.000847		mg/L		85	75 - 125	4	20

Lab Sample ID: MB 180-311012/1-A
Matrix: Water
Analysis Batch: 311297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/24/20 19:42	03/26/20 19:48	1

Lab Sample ID: LCS 180-311012/2-A
Matrix: Water
Analysis Batch: 311297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00238		mg/L		95	80 - 120

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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

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: 180-103809-8 DU
Matrix: Water
Analysis Batch: 310933

Client Sample ID: WGWC-16
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: MB 180-310934/2
Matrix: Water
Analysis Batch: 310934

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 08:03	1

Lab Sample ID: LCS 180-310934/1
Matrix: Water
Analysis Batch: 310934

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	258		mg/L	-	107	80 - 120

Lab Sample ID: 180-103809-1 DU
Matrix: Water
Analysis Batch: 310934

Client Sample ID: WGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	540		576		mg/L	-	6	10

Lab Sample ID: 180-103809-7 DU
Matrix: Water
Analysis Batch: 310934

Client Sample ID: WGWC-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	160		164		mg/L	-	0.6	10

Lab Sample ID: MB 180-310936/2
Matrix: Water
Analysis Batch: 310936

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 08:08	1

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

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

Lab Sample ID: LCS 180-310936/1
Matrix: Water
Analysis Batch: 310936

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	276		mg/L		114	80 - 120

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

HPLC/IC

Analysis Batch: 312087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-103809-2	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 312143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-8	WGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-103809-12	DUPLICATE 2	Total/NA	Water	EPA 300.0 R2.1	
180-103809-13	FB-1 3-18-20	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 312144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-3	WGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-103809-4	WGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-103809-7	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-103809-9	WGWC-17	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 312254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-103809-2	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-103809-5	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-103809-6	WGWC-14A	Total/NA	Water	EPA 300.0 R2.1	
180-103809-14	FB-2 3-19-20	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 311010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total/NA	Water	7470A	
180-103809-2	WGWC-9	Total/NA	Water	7470A	
180-103809-3	WGWC-10	Total/NA	Water	7470A	
180-103809-4	WGWC-12	Total/NA	Water	7470A	
180-103809-5	WGWC-13	Total/NA	Water	7470A	
180-103809-6	WGWC-14A	Total/NA	Water	7470A	
180-103809-7	WGWC-15	Total/NA	Water	7470A	

Prep Batch: 311012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-8	WGWC-16	Total/NA	Water	7470A	
180-103809-9	WGWC-17	Total/NA	Water	7470A	
180-103809-12	DUPLICATE 2	Total/NA	Water	7470A	
180-103809-13	FB-1 3-18-20	Total/NA	Water	7470A	
180-103809-14	FB-2 3-19-20	Total/NA	Water	7470A	

Prep Batch: 311071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total Recoverable	Water	3005A	
180-103809-2	WGWC-9	Total Recoverable	Water	3005A	
180-103809-3	WGWC-10	Total Recoverable	Water	3005A	
180-103809-4	WGWC-12	Total Recoverable	Water	3005A	
180-103809-5	WGWC-13	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Metals (Continued)

Prep Batch: 311071 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-6	WGWC-14A	Total Recoverable	Water	3005A	
180-103809-7	WGWC-15	Total Recoverable	Water	3005A	
180-103809-8	WGWC-16	Total Recoverable	Water	3005A	
180-103809-9	WGWC-17	Total Recoverable	Water	3005A	
180-103809-12	DUPLICATE 2	Total Recoverable	Water	3005A	
180-103809-13	FB-1 3-18-20	Total Recoverable	Water	3005A	
180-103809-14	FB-2 3-19-20	Total Recoverable	Water	3005A	

Analysis Batch: 311297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total/NA	Water	EPA 7470A	311010
180-103809-2	WGWC-9	Total/NA	Water	EPA 7470A	311010
180-103809-3	WGWC-10	Total/NA	Water	EPA 7470A	311010
180-103809-4	WGWC-12	Total/NA	Water	EPA 7470A	311010
180-103809-5	WGWC-13	Total/NA	Water	EPA 7470A	311010
180-103809-6	WGWC-14A	Total/NA	Water	EPA 7470A	311010
180-103809-7	WGWC-15	Total/NA	Water	EPA 7470A	311010
180-103809-8	WGWC-16	Total/NA	Water	EPA 7470A	311012
180-103809-9	WGWC-17	Total/NA	Water	EPA 7470A	311012
180-103809-12	DUPLICATE 2	Total/NA	Water	EPA 7470A	311012
180-103809-13	FB-1 3-18-20	Total/NA	Water	EPA 7470A	311012
180-103809-14	FB-2 3-19-20	Total/NA	Water	EPA 7470A	311012

Analysis Batch: 312686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total Recoverable	Water	EPA 6020B	311071
180-103809-2	WGWC-9	Total Recoverable	Water	EPA 6020B	311071
180-103809-3	WGWC-10	Total Recoverable	Water	EPA 6020B	311071
180-103809-4	WGWC-12	Total Recoverable	Water	EPA 6020B	311071
180-103809-5	WGWC-13	Total Recoverable	Water	EPA 6020B	311071
180-103809-6	WGWC-14A	Total Recoverable	Water	EPA 6020B	311071
180-103809-7	WGWC-15	Total Recoverable	Water	EPA 6020B	311071
180-103809-8	WGWC-16	Total Recoverable	Water	EPA 6020B	311071
180-103809-9	WGWC-17	Total Recoverable	Water	EPA 6020B	311071
180-103809-12	DUPLICATE 2	Total Recoverable	Water	EPA 6020B	311071
180-103809-13	FB-1 3-18-20	Total Recoverable	Water	EPA 6020B	311071
180-103809-14	FB-2 3-19-20	Total Recoverable	Water	EPA 6020B	311071

Analysis Batch: 312904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total Recoverable	Water	EPA 6020B	311071
180-103809-2	WGWC-9	Total Recoverable	Water	EPA 6020B	311071
180-103809-3	WGWC-10	Total Recoverable	Water	EPA 6020B	311071
180-103809-4	WGWC-12	Total Recoverable	Water	EPA 6020B	311071
180-103809-5	WGWC-13	Total Recoverable	Water	EPA 6020B	311071
180-103809-6	WGWC-14A	Total Recoverable	Water	EPA 6020B	311071
180-103809-7	WGWC-15	Total Recoverable	Water	EPA 6020B	311071
180-103809-8	WGWC-16	Total Recoverable	Water	EPA 6020B	311071
180-103809-9	WGWC-17	Total Recoverable	Water	EPA 6020B	311071
180-103809-12	DUPLICATE 2	Total Recoverable	Water	EPA 6020B	311071
180-103809-13	FB-1 3-18-20	Total Recoverable	Water	EPA 6020B	311071

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-1

Metals (Continued)

Analysis Batch: 312904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-14	FB-2 3-19-20	Total Recoverable	Water	EPA 6020B	311071

Analysis Batch: 313029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total Recoverable	Water	EPA 6020B	311071
180-103809-2	WGWC-9	Total Recoverable	Water	EPA 6020B	311071
180-103809-3	WGWC-10	Total Recoverable	Water	EPA 6020B	311071
180-103809-4	WGWC-12	Total Recoverable	Water	EPA 6020B	311071
180-103809-5	WGWC-13	Total Recoverable	Water	EPA 6020B	311071
180-103809-6	WGWC-14A	Total Recoverable	Water	EPA 6020B	311071
180-103809-8	WGWC-16	Total Recoverable	Water	EPA 6020B	311071
180-103809-9	WGWC-17	Total Recoverable	Water	EPA 6020B	311071

General Chemistry

Analysis Batch: 310933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-4	WGWC-12	Total/NA	Water	SM 2540C	
180-103809-8	WGWC-16	Total/NA	Water	SM 2540C	
180-103809-12	DUPLICATE 2	Total/NA	Water	SM 2540C	
180-103809-13	FB-1 3-18-20	Total/NA	Water	SM 2540C	

Analysis Batch: 310934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total/NA	Water	SM 2540C	
180-103809-2	WGWC-9	Total/NA	Water	SM 2540C	
180-103809-3	WGWC-10	Total/NA	Water	SM 2540C	
180-103809-5	WGWC-13	Total/NA	Water	SM 2540C	
180-103809-6	WGWC-14A	Total/NA	Water	SM 2540C	
180-103809-7	WGWC-15	Total/NA	Water	SM 2540C	
180-103809-9	WGWC-17	Total/NA	Water	SM 2540C	
180-103809-14	FB-2 3-19-20	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 310781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total/NA	Water	Field Sampling	
180-103809-2	WGWC-9	Total/NA	Water	Field Sampling	
180-103809-3	WGWC-10	Total/NA	Water	Field Sampling	
180-103809-4	WGWC-12	Total/NA	Water	Field Sampling	
180-103809-5	WGWC-13	Total/NA	Water	Field Sampling	
180-103809-6	WGWC-14A	Total/NA	Water	Field Sampling	
180-103809-7	WGWC-15	Total/NA	Water	Field Sampling	
180-103809-8	WGWC-16	Total/NA	Water	Field Sampling	
180-103809-9	WGWC-17	Total/NA	Water	Field Sampling	

Client Information Client Contact: Jojo Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Lab PM: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)		Carrier Tracking No(s): [blank]		COC No: [blank] Page: [blank] Job #: [blank]													
Due Date Requested: [blank] TAT Requested (days): [blank]		Analysis Requested 180-103809 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: [blank]		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)													
Sample Date 3-19-20 3-19-20 3-18-20 3-18-20 3-19-20 3-19-20 3-18-20 3-18-20 3-19-20 3-19-20		Sample Time 1249 1122 1455 1145 1115 1335 1035 1145 1511 1320 1310		Sample Type (C=Comp, G=grab) G G G G G G G G G G		Matrix (W=water, S=solid, O=waste/oli, BT=Issue, As=Air) W W W W W W W W W W		Field Filtered Sample (Yes or No) N N N N N N N N N N		App. III Metals D N		Detected App IV Metals (See list below) X X X X X X X X X X X		Radium 226 & 228 (SW-846 9315/9320) X X X X X X X X X X		Total Number of Containers 3 3 3 4 3 3 3 3 3 3 3		Special Instructions/Note: pH= 6.43 pH= 6.64 pH= 6.40 pH= 6.94 pH= 6.56 pH= 5.49 pH= 7.73 pH= 5.04 pH= 6.29 pH= 7.11 pH=	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 3/19/20 Date: 3/19/20 Date: 3/20/19		Company: ACC Company: ACC Company: ETNA		Date/Time: 3/19/20 15:00 Date/Time: 3/19/20 16:24 Date/Time: 3/20/20 09:00		Company: [blank] Company: [blank] Company: [blank]					
Custody Seal No.: [blank]		Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:		Date: [blank]		Date: [blank]		Date: [blank]		Date: [blank]		Date: [blank]					

Client Information Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Lab PM: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)		Carrier Tracking No(s): COC No.: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSOW#:		Analysis Requested			
Sample Identification Duplicate 2 FA-1 3-18-20 FB-2 3-19-20		Sample Date 3-18-20 3-18-20 3-19-20		Sample Time — 1455 1230	
Sample Type (C=Comp, G=grab) G G G		Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air) W W W		Preservation Code: G W W	
Field Filtered Sample (Yes or No) N N N		Perform MS/MSD (Yes or No) N N N		App. III Metals D N N	
Detected App IV Metals (See list below) Radium 226 & 228 (SM-846 9315/9320)		X X X		Total Number of Containers 3 3 3	
Special Instructions/Note: pH= — pH= — pH= — pH= — pH= — pH= — pH= — pH= — pH= — pH= —		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - H2SO4 S - TSP Dodecahydrate T - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]					
Date: 3-19-20 Date/Time: 3:19:20 Date/Time: 3:19:20 Date/Time: 3:19:20					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Method of Shipment:					
Received by: [Signature] Company: [blank] Date/Time: 3/19/20 16:00 Received by: [Signature] Company: [blank] Date/Time: 3/19/20 16:20 Received by: [Signature] Company: [blank] Date/Time: 3/19/20 16:20					
Cooler Temperature(s) °C and Other Remarks:					
Custody Seal No.:					



15:00
2097
03 20
A

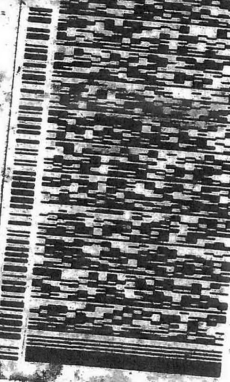
RT 97
FZ

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE
PC 0467: 63
OAD: 659116

BILL RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7066
REF: ACC

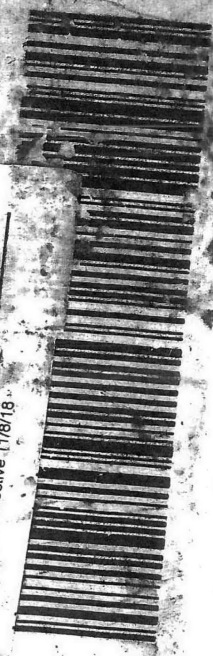


1 of 4
TRK# 1516 9323 2097
0201
MASTER

Uncorrected temp
Thermometer ID

CF 0 Initials TS

PT-WI-SR-001 effective 11/8/18



Environment Testing
Trust America

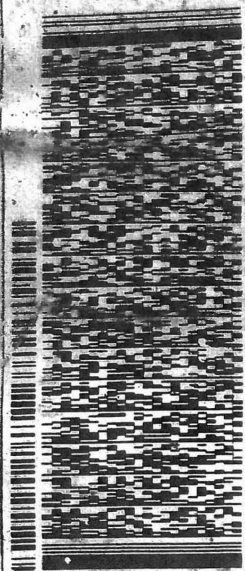


180-103809 Waybill

6) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 19MAR20
ACTWT: 3.95 LB
CAD: 45118/CAFE3312
BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7066
REF: ACC



2014
MPS# 1516 9323 2101
0263
Mstr# 1516 9323 2097
0201

Uncorrected temp
Thermometer ID

CF 0 Initials TS

PT-WI-SR-001 effective 11/8/18



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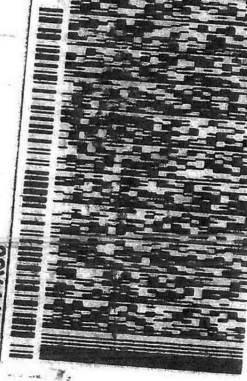
Environment Testir
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
8500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATES 19MAR20
ACTWT: 53.35 LB
PAD: 889116/CAFE3312

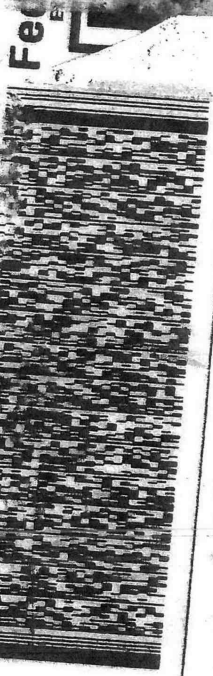
SHIP RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 969-7068
REF: ACC



ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
8500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 969-7068
REF: ACC



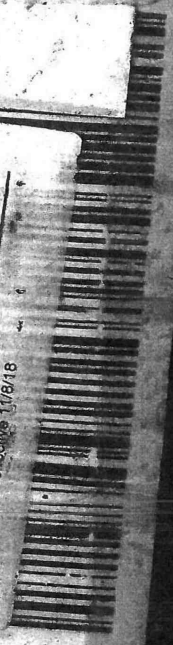
4 of 4
MPS# 1516 9323 2123
0263
Met# 1516 9323 2097
0201
FRI - 201
STANDARD 0

NA ACCA

Uncorrected temp
Thermometer ID

CF Initials JS

PT-WI-SR-C01 effective 11/8/18



NA ACCA

Uncorrected temp
Thermometer ID

CF Initials JS

PT-WI-SR-C01 effective 11/8/18



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ANALYTICAL REPORT

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

Laboratory Job ID: 180-103809-2

Client Project/Site: CCR - Plant Wansley Ash Pond
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:
6/10/2020 5:14:22 PM

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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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: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Job ID: 180-103809-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-103809-2

Comments

061020 Revised report to remove the following samples at client request: WCWC-19 (180-103809-10) and EB-2 3-10-20 (180-103809-11). Original request and reason is on file. This report replaces the report previously issued on 042820.

Receipt

The samples were received on 3/20/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 1.4° C and 1.5° C.

RAD

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.

WGWC-8 (180-103809-1), WGWC-9 (180-103809-2), WGWC-10 (180-103809-3), WGWC-12 (180-103809-4), WGWC-13 (180-103809-5), WGWC-14A (180-103809-6), WGWC-15 (180-103809-7), WGWC-16 (180-103809-8), WGWC-17 (180-103809-9), WGWC-19 (180-103809-10), EB-2 3-19-20 (180-103809-11), DUPLICATE 2 (180-103809-12), FB-1 3-18-20 (180-103809-13), FB-2 3-19-20 (180-103809-14), (LCS 160-465545/1-A), (LCSD 160-465545/2-A) and (MB 160-465545/23-A)

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.

WGWC-8 (180-103809-1), WGWC-9 (180-103809-2), WGWC-10 (180-103809-3), WGWC-12 (180-103809-4), WGWC-13 (180-103809-5), WGWC-14A (180-103809-6), WGWC-15 (180-103809-7), WGWC-16 (180-103809-8), WGWC-17 (180-103809-9), WGWC-19 (180-103809-10), EB-2 3-19-20 (180-103809-11), DUPLICATE 2 (180-103809-12), FB-1 3-18-20 (180-103809-13), FB-2 3-19-20 (180-103809-14), (LCS 160-465549/1-A), (LCSD 160-465549/2-A) and (MB 160-465549/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-465549:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWC-8 (180-103809-1), WGWC-9 (180-103809-2), WGWC-10 (180-103809-3), WGWC-12 (180-103809-4), WGWC-13 (180-103809-5), WGWC-14A (180-103809-6), WGWC-15 (180-103809-7), WGWC-16 (180-103809-8), WGWC-17 (180-103809-9), WGWC-19 (180-103809-10), EB-2 3-19-20 (180-103809-11), DUPLICATE 2 (180-103809-12), FB-1 3-18-20 (180-103809-13) and FB-2 3-19-20 (180-103809-14). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-465545:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWC-8 (180-103809-1), WGWC-9 (180-103809-2), WGWC-10 (180-103809-3), WGWC-12 (180-103809-4), WGWC-13 (180-103809-5), WGWC-14A (180-103809-6), WGWC-15 (180-103809-7), WGWC-16 (180-103809-8), WGWC-17 (180-103809-9), WGWC-19 (180-103809-10), EB-2 3-19-20 (180-103809-11), DUPLICATE 2 (180-103809-12), FB-1 3-18-20 (180-103809-13) and FB-2 3-19-20 (180-103809-14). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

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.
▫	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: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	05-14-20
ANAB	Dept. of Energy	L2305.01	05-14-20
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	04-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-103809-1	WGWC-8	Water	03/19/20 12:49	03/20/20 09:00	
180-103809-2	WGWC-9	Water	03/19/20 11:22	03/20/20 09:00	
180-103809-3	WGWC-10	Water	03/18/20 14:55	03/20/20 09:00	
180-103809-4	WGWC-12	Water	03/18/20 11:45	03/20/20 09:00	
180-103809-5	WGWC-13	Water	03/19/20 11:15	03/20/20 09:00	
180-103809-6	WGWC-14A	Water	03/19/20 13:35	03/20/20 09:00	
180-103809-7	WGWC-15	Water	03/18/20 10:35	03/20/20 09:00	
180-103809-8	WGWC-16	Water	03/18/20 11:45	03/20/20 09:00	
180-103809-9	WGWC-17	Water	03/18/20 15:11	03/20/20 09:00	
180-103809-12	DUPLICATE 2	Water	03/18/20 00:00	03/20/20 09:00	
180-103809-13	FB-1 3-18-20	Water	03/18/20 14:55	03/20/20 09:00	
180-103809-14	FB-2 3-19-20	Water	03/19/20 12:30	03/20/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

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: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-103809-1

Date Collected: 03/19/20 12:49

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			1000.57 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.57 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:43	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: WGWC-9

Lab Sample ID: 180-103809-2

Date Collected: 03/19/20 11:22

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	Prep	PrecSep-21			1000.38 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.38 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:43	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: WGWC-10

Lab Sample ID: 180-103809-3

Date Collected: 03/18/20 14:55

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			1000.49 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.49 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:43	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: WGWC-12

Lab Sample ID: 180-103809-4

Date Collected: 03/18/20 11:45

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			1000.85 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-103809-4

Date Collected: 03/18/20 11:45

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_0			1000.85 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:43	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: WGWC-13

Lab Sample ID: 180-103809-5

Date Collected: 03/19/20 11:15

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			1000.88 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.88 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:43	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: WGWC-14A

Lab Sample ID: 180-103809-6

Date Collected: 03/19/20 13:35

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			1000.89 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.89 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:43	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: WGWC-15

Lab Sample ID: 180-103809-7

Date Collected: 03/18/20 10:35

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			1000.73 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.73 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:43	KLS	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-103809-7

Date Collected: 03/18/20 10:35

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	Ra226_Ra228		1			467932	04/16/20 10:11	SMP	TAL SL

Client Sample ID: WGWC-16

Lab Sample ID: 180-103809-8

Date Collected: 03/18/20 11:45

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			1000.63 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.63 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:44	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: WGWC-17

Lab Sample ID: 180-103809-9

Date Collected: 03/18/20 15:11

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			1000.62 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 04:54	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467676	04/14/20 13:44	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: DUPLICATE 2

Lab Sample ID: 180-103809-12

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	Prep	PrecSep-21			1000.24 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 06:43	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.24 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467710	04/14/20 13:39	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			467932	04/16/20 10:11	SMP	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: FB-1 3-18-20

Lab Sample ID: 180-103809-13

Date Collected: 03/18/20 14:55

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			1000.47 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 06:44	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.47 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467710	04/14/20 13:39	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			467932	04/16/20 10:11	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2 3-19-20

Lab Sample ID: 180-103809-14

Date Collected: 03/19/20 12:30

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			1000.55 mL	1.0 g	465545	03/25/20 12:24	RBR	TAL SL
Total/NA	Analysis	9315		1			467927	04/16/20 06:44	CJQ	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.55 mL	1.0 g	465549	03/25/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1			467710	04/14/20 13:39	AJD	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			467932	04/16/20 10:11	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

RBR = Rachael Ratcliff

Batch Type: Analysis

AJD = Audra DeMariano

CJQ = Caleb Quinn

KLS = Kody Saulters

SMP = Siobhan Perry

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-103809-1

Date Collected: 03/19/20 12:49

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	0.389		0.188	0.192	1.00	0.213	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					03/25/20 12:24	04/16/20 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	0.817		0.414	0.421	1.00	0.609	pCi/L	03/25/20 12:53	04/14/20 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					03/25/20 12:53	04/14/20 13:43	1
Y Carrier	68.0		40 - 110					03/25/20 12:53	04/14/20 13:43	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	1.21		0.455	0.463	2.00	0.609	pCi/L		04/16/20 10:11	1

Client Sample ID: WGWC-9

Lab Sample ID: 180-103809-2

Date Collected: 03/19/20 11:22

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	0.0849	U	0.147	0.148	1.00	0.257	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					03/25/20 12:24	04/16/20 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	0.145	U	0.263	0.263	1.00	0.446	pCi/L	03/25/20 12:53	04/14/20 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					03/25/20 12:53	04/14/20 13:43	1
Y Carrier	80.7		40 - 110					03/25/20 12:53	04/14/20 13:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-103809-2

Date Collected: 03/19/20 11:22

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	0.230	U	0.301	0.302	2.00	0.446	pCi/L		04/16/20 10:11	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-103809-3

Date Collected: 03/18/20 14:55

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	0.165	U	0.137	0.138	1.00	0.200	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					03/25/20 12:24	04/16/20 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	0.296	U	0.307	0.308	1.00	0.500	pCi/L	03/25/20 12:53	04/14/20 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					03/25/20 12:53	04/14/20 13:43	1
Y Carrier	78.1		40 - 110					03/25/20 12:53	04/14/20 13:43	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	0.461	U	0.336	0.338	2.00	0.500	pCi/L		04/16/20 10:11	1

Client Sample ID: WGWC-12

Lab Sample ID: 180-103809-4

Date Collected: 03/18/20 11:45

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	0.0230	U	0.128	0.128	1.00	0.244	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					03/25/20 12:24	04/16/20 04:54	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-12

Date Collected: 03/18/20 11:45

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103809-4

Matrix: Water

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0492	U	0.260	0.260	1.00	0.474	pCi/L	03/25/20 12:53	04/14/20 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					03/25/20 12:53	04/14/20 13:43	1
Y Carrier	71.8		40 - 110					03/25/20 12:53	04/14/20 13:43	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	-0.0262	U	0.290	0.290	2.00	0.474	pCi/L		04/16/20 10:11	1

Client Sample ID: WGWC-13

Date Collected: 03/19/20 11:15

Date Received: 03/20/20 09:00

Lab Sample ID: 180-103809-5

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	0.107	U	0.132	0.132	1.00	0.217	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					03/25/20 12:24	04/16/20 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	0.362	U	0.271	0.273	1.00	0.424	pCi/L	03/25/20 12:53	04/14/20 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					03/25/20 12:53	04/14/20 13:43	1
Y Carrier	78.5		40 - 110					03/25/20 12:53	04/14/20 13:43	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	0.470		0.301	0.303	2.00	0.424	pCi/L		04/16/20 10:11	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-103809-6

Date Collected: 03/19/20 13:35

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	0.285		0.158	0.160	1.00	0.199	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					03/25/20 12:24	04/16/20 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	0.0917	U	0.244	0.244	1.00	0.422	pCi/L	03/25/20 12:53	04/14/20 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					03/25/20 12:53	04/14/20 13:43	1
Y Carrier	83.4		40 - 110					03/25/20 12:53	04/14/20 13:43	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	0.376	U	0.291	0.292	2.00	0.422	pCi/L		04/16/20 10:11	1

Client Sample ID: WGWC-15

Lab Sample ID: 180-103809-7

Date Collected: 03/18/20 10:35

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	0.235		0.161	0.162	1.00	0.228	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					03/25/20 12:24	04/16/20 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	0.0678	U	0.269	0.269	1.00	0.469	pCi/L	03/25/20 12:53	04/14/20 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		40 - 110					03/25/20 12:53	04/14/20 13:43	1
Y Carrier	78.9		40 - 110					03/25/20 12:53	04/14/20 13:43	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-103809-7

Date Collected: 03/18/20 10:35

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	0.303	U	0.313	0.314	2.00	0.469	pCi/L		04/16/20 10:11	1

Client Sample ID: WGWC-16

Lab Sample ID: 180-103809-8

Date Collected: 03/18/20 11:45

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	0.241		0.162	0.163	1.00	0.221	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					03/25/20 12:24	04/16/20 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	0.196	U	0.250	0.251	1.00	0.416	pCi/L	03/25/20 12:53	04/14/20 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					03/25/20 12:53	04/14/20 13:44	1
Y Carrier	80.0		40 - 110					03/25/20 12:53	04/14/20 13:44	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	0.437		0.298	0.299	2.00	0.416	pCi/L		04/16/20 10:11	1

Client Sample ID: WGWC-17

Lab Sample ID: 180-103809-9

Date Collected: 03/18/20 15:11

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	0.0223	U	0.124	0.124	1.00	0.240	pCi/L	03/25/20 12:24	04/16/20 04:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					03/25/20 12:24	04/16/20 04:54	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-103809-9

Date Collected: 03/18/20 15:11

Matrix: Water

Date Received: 03/20/20 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	0.0432	U	0.248	0.248	1.00	0.439	pCi/L	03/25/20 12:53	04/14/20 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					03/25/20 12:53	04/14/20 13:44	1
Y Carrier	79.6		40 - 110					03/25/20 12:53	04/14/20 13:44	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	0.0655	U	0.277	0.277	2.00	0.439	pCi/L		04/16/20 10:11	1

Client Sample ID: DUPLICATE 2

Lab Sample ID: 180-103809-12

Date Collected: 03/18/20 00:00

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	0.0370	U	0.0993	0.0994	1.00	0.185	pCi/L	03/25/20 12:24	04/16/20 06:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/25/20 12:24	04/16/20 06:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.223	U	0.258	0.259	1.00	0.424	pCi/L	03/25/20 12:53	04/14/20 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/25/20 12:53	04/14/20 13:39	1
Y Carrier	82.6		40 - 110					03/25/20 12:53	04/14/20 13:39	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	0.260	U	0.276	0.277	2.00	0.424	pCi/L		04/16/20 10:11	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: FB-1 3-18-20

Lab Sample ID: 180-103809-13

Date Collected: 03/18/20 14:55

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	-0.0586	U	0.0896	0.0898	1.00	0.217	pCi/L	03/25/20 12:24	04/16/20 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					03/25/20 12:24	04/16/20 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0178	U	0.308	0.308	1.00	0.542	pCi/L	03/25/20 12:53	04/14/20 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					03/25/20 12:53	04/14/20 13:39	1
Y Carrier	77.8		40 - 110					03/25/20 12:53	04/14/20 13:39	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	-0.0408	U	0.321	0.321	2.00	0.542	pCi/L		04/16/20 10:11	1

Client Sample ID: FB-2 3-19-20

Lab Sample ID: 180-103809-14

Date Collected: 03/19/20 12:30

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	0.00689	U	0.119	0.119	1.00	0.234	pCi/L	03/25/20 12:24	04/16/20 06:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					03/25/20 12:24	04/16/20 06:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.418	U	0.325	0.327	1.00	0.517	pCi/L	03/25/20 12:53	04/14/20 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					03/25/20 12:53	04/14/20 13:39	1
Y Carrier	84.5		40 - 110					03/25/20 12:53	04/14/20 13:39	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Client Sample ID: FB-2 3-19-20

Lab Sample ID: 180-103809-14

Date Collected: 03/19/20 12:30

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	0.425	U	0.346	0.348	2.00	0.517	pCi/L		04/16/20 10:11	1

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

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

Method: 9315 - Radium-226 (GFPC)

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+/-)				03/25/20 12:24	04/16/20 06:44		
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	LCS LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec.	RER	Limit
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					Limits		
Radium-226			11.3	9.183		1.09	1.00	0.205	pCi/L	81	75 - 125		
Carrier	LCS LCS		Limits										
Ba Carrier	%Yield	Qualifier	40 - 110										
	95.7												

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	LCSD LCSD		Spike	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec.	RER	Limit
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					Limits		
Radium-226			11.3	9.005		1.07	1.00	0.197	pCi/L	79	75 - 125	0.08	1
Carrier	LCSD LCSD		Limits										
Ba Carrier	%Yield	Qualifier	40 - 110										
	94.5												

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-465549/23-A
Matrix: Water
Analysis Batch: 467710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 465549

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				03/25/20 12:53	04/14/20 13:40		
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 MB		Limits					Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier	40 - 110					03/25/20 12:53	04/14/20 13:40	1	
Y Carrier	82.2		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: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2

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

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

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-103809-2


Rad

Prep Batch: 465545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total/NA	Water	PrecSep-21	
180-103809-2	WGWC-9	Total/NA	Water	PrecSep-21	
180-103809-3	WGWC-10	Total/NA	Water	PrecSep-21	
180-103809-4	WGWC-12	Total/NA	Water	PrecSep-21	
180-103809-5	WGWC-13	Total/NA	Water	PrecSep-21	
180-103809-6	WGWC-14A	Total/NA	Water	PrecSep-21	
180-103809-7	WGWC-15	Total/NA	Water	PrecSep-21	
180-103809-8	WGWC-16	Total/NA	Water	PrecSep-21	
180-103809-9	WGWC-17	Total/NA	Water	PrecSep-21	
180-103809-12	DUPLICATE 2	Total/NA	Water	PrecSep-21	
180-103809-13	FB-1 3-18-20	Total/NA	Water	PrecSep-21	
180-103809-14	FB-2 3-19-20	Total/NA	Water	PrecSep-21	

Prep Batch: 465549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-103809-1	WGWC-8	Total/NA	Water	PrecSep_0	
180-103809-2	WGWC-9	Total/NA	Water	PrecSep_0	
180-103809-3	WGWC-10	Total/NA	Water	PrecSep_0	
180-103809-4	WGWC-12	Total/NA	Water	PrecSep_0	
180-103809-5	WGWC-13	Total/NA	Water	PrecSep_0	
180-103809-6	WGWC-14A	Total/NA	Water	PrecSep_0	
180-103809-7	WGWC-15	Total/NA	Water	PrecSep_0	
180-103809-8	WGWC-16	Total/NA	Water	PrecSep_0	
180-103809-9	WGWC-17	Total/NA	Water	PrecSep_0	
180-103809-12	DUPLICATE 2	Total/NA	Water	PrecSep_0	
180-103809-13	FB-1 3-18-20	Total/NA	Water	PrecSep_0	
180-103809-14	FB-2 3-19-20	Total/NA	Water	PrecSep_0	

Client Information Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Lab PM: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)		Carrier Tracking No(s): Job #:		COC No: Page: Job #:					
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: [blank] Project #: 40007709 SSO#: [blank]		Analysis Requested  180-103809 Chain of Custody		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: [blank]		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)					
Sample Identification		Field Filtered Sample (Yes or No)		App. III Metals		Detected App IV Metals (See list below) Radium 226 & 228 (SW-846 9315/9320)		Total Number of Containers		Special Instructions/Note:	
Sample ID	Sample Date	Sample Time	Sample Type (G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=issue, As=Air)	Preservation Code	Field Filtered Sample (Yes or No)	App. III Metals	Detected App IV Metals (See list below)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of Containers	Special Instructions/Note
WGWC-8	3-19-20	1249	G	W	N	X	X	X	X	3	pH= 6.43
WGWC-9	3-19-20	1122	G	W	N	X	X	X	X	3	pH= 6.64
WGWC-10	3-18-20	1455	G	W	N	X	X	X	X	3	pH= 6.40
WGWC-12	3-18-20	1145	G	W	N	X	X	X	X	4	pH= 6.94
WGWC-13	3-19-20	1115	G	W	N	X	X	X	X	3	pH= 6.56
WGWC-14K	3-19-20	1335	G	W	N	X	X	X	X	3	pH= 5.49
WGWC-15	3-18-20	1035	G	W	N	X	X	X	X	3	pH= 7.73
WGWC-16	3-18-20	1145	G	W	N	X	X	X	X	3	pH= 5.04
WGWC-17	3-18-20	1511	G	W	N	X	X	X	X	3	pH= 6.29
WGWC-19	3-19-20	1320	G	W	N	X	X	X	X	3	pH= 7.11
EB-2 3-19-20	3-19-20	1310	G	W	N	X	X	X	X	3	pH= —
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological											
Deliverable Requested: I, II, III, IV, Other (specify)											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements:											
Empty Kit Relinquished by: [blank] Date: [blank] Time: [blank] Method of Shipment: [blank]											
Relinquished by: Taylor Galt Date/Time: 3/19/20 15:00 Company: [blank]											
Relinquished by: [blank] Date/Time: 3/20/19 16:24 Company: [blank]											
Relinquished by: [blank] Date/Time: [blank] Company: [blank]											
Custody Seal Intact: Δ Yes Δ No											
Custody Seal No.: [blank] Cooler Temperature(s) °C and Other Remarks: [blank]											

Client Information Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Lab PM: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)		Carrier Tracking No(s): COC No.: Page: Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSOW#:		Analysis Requested			
Sample Identification Duplicate 2 FA-1 3-18-20 FB-2 3-19-20		Sample Date 3-18-20 3-18-20 3-19-20		Sample Time — 1455 1230	
Sample Type (C=Comp, G=grab) G G G		Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air) W W W		Preservation Code: G W W	
Field Filtered Sample (Yes or No) N N N		Perform MS/MSD (Yes or No) N N N		App. III Metals D N N	
Detected App IV Metals (See list below) Radium 226 & 228 (SM-846 9315/9320)		Detected App V Metals (EPA 300.0 & SM 2540C) C1, F, SO, & TDS		Total Number of Containers 3 3 3	
Special Instructions/Note: pH= — pH= — pH= — pH= — pH= — pH= — pH= — pH= — pH= — pH= —		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: [Signature] Date/Time: 3-19-20 16:20 Company: ETA		Relinquished by: [Signature] Date/Time: 3-19-20 16:20 Company: ETA		Relinquished by: [Signature] Date/Time: 3-19-20 16:00 Company: ETA	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



15:00
2097
03 20
A

RT 97
FZ

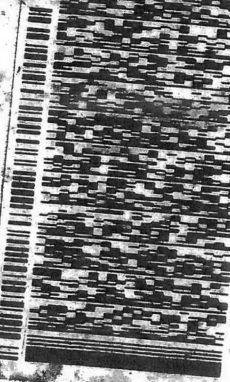
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE
PC 0467: 03
OAD: 059116

BILL RECEIPT

180-103809 Waybill

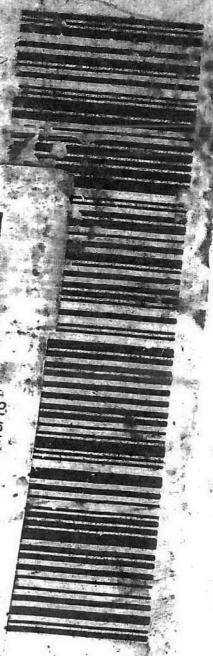
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7066
REF: ACC



1 of 4
TRK# 1516 9323 2097
0201
MASTER ##
FRI - 20 MAR 3:00P
STANDARD OVERNIGHT
PA-US PIT-15238

Uncorrected temp
Thermometer ID

CF 0 Initials TS
PT-WI-SR-001 effective 11/8/18



Environment Testing
TestAmerica



6) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 19MAR20
ACTWT: 3.95 LB
CAD: 45118/CAFE3312
BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7066
REF: ACC



2 of 4
MPS# 1516 9323 2101
0263
Mstr# 1516 9323 2097
0201
FRI - 20 MAR 3:00P
STANDARD OVERNIGHT
PA-US PIT-15238

Uncorrected temp
Thermometer ID

CF 0 Initials TS
PT-WI-SR-001 effective 11/8/18



Environment Testir
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
8500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATES 19MAR20
ACTWT: 53.35 LB
PAD: 889116/CAFE3312

SHIP RECEIPT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 969-7068
REF: ACC

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
8500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 969-7068
REF: ACC



4 of 4
MPS# 1516 9323 2123
0263
Met# 1516 9323 2097
0201

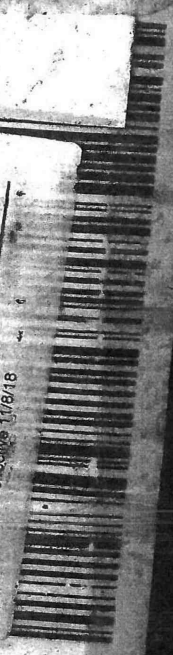
FRI - 201
STANDARD 0

NA ACCA

Uncorrected temp
Thermometer ID

CF Initials JS

PT-WI-SR-001 effective 11/8/18



NA ACCA

Uncorrected temp
Thermometer ID

CF Initials JS

PT-WI-SR-001 effective 11/8/18



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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Bortol, Veronica		Carrier Tracking No(s): 180-388549.1	
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com		Page: Page 1 of 2	
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia		Job #: 180-103809-2	
Address: 13715 Rider Trail North,		Accreditations Required (See note):		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 F - MeOH R - Na2S2O3 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (Specify) Other:	
City: Earth City		Due Date Requested: 4/20/2020		Analysis Requested	
State, Zip: MO, 63045		TAT Requested (days):		Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:		9320_Ra228/PreSep_0 (MOD) Copy Analyses	
Email:		WO #:		9315_Ra226/PreSep_21 (MOD) Copy Analyses	
Project Name: CCR - Plant Wansley Ash Pond		Project #: 18019922		R226Ra228_GFP/ (MOD) Local Method	
Site: Wansley CCR		SSOW#:		Perform MS/MSD (Yes or No)	
		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Preservation Code:			
WGWC-8 (180-103809-1)	Sample Date 3/19/20	Sample Time 12:49 Eastern	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air)	1
WGWC-9 (180-103809-2)	3/19/20	11:22 Eastern		Water	1
WGWC-10 (180-103809-3)	3/18/20	14:55 Eastern		Water	1
WGWC-12 (180-103809-4)	3/18/20	11:45 Eastern		Water	2
WGWC-13 (180-103809-5)	3/19/20	11:15 Eastern		Water	1
WGWC-14A (180-103809-6)	3/19/20	13:35 Eastern		Water	1
WGWC-15 (180-103809-7)	3/18/20	10:35 Eastern		Water	1
WGWC-16 (180-103809-8)	3/18/20	11:45 Eastern		Water	1
WGWC-17 (180-103809-9)	3/18/20	15:11 Eastern		Water	1
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Relinquished by: [Signature]					
Relinquished by: [Signature]					
Relinquished by: [Signature]					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No.:					
Cooler Temperature(s) °C and Other Remarks:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:					
Method of Shipment:					
Received by: [Signature]					
Received by: [Signature]					
Received by: [Signature]					
Date/Time: 3/24/2020 08:15:57A					
Date/Time:					
Date/Time:					
Date/Time:					

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking Net(s):	COG No:						
Client Contact: Shipping/Receiving		Phone:	Bortol, Veronica	State of Origin:	180-388549-2						
Company: TestAmerica Laboratories, Inc.		E-Mail: veronica.bortol@testamericainc.com		Page:	Page 2 of 2						
Address: 13715 Rider Trail North,		Accreditations Required (See note):		Job #:	180-103809-2						
City: Earth City	Due Date Requested: 4/20/2020	Analysis Requested									
State, Zip: MO, 63045	IAT Requested (days):										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:										
Email:	WO #:										
Project Name: CCR - Plant Wansley Ash Pond	Project #: 18019922										
Site: Wansley CCR	SSOW#:										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, G=issue, A=air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	9320_Ra228/PreSep_0 (MOD) Copy Analytes	9315_Ra226/PreSep_21 (MOD) Copy Analytes	Ra226Ra228_GFP/ (MOD) Local Method	Total Number of Containers	Special Instructions/Note:
WGWC-19 (180-103809-10)	3/18/20	13:20 Eastern	Water	Water	X	X	X	X	X	1	
EB-2 3-19-20 (180-103809-11)	3/19/20	13:10 Eastern	Water	Water	X	X	X	X	X	1	
DUPLICATE 2 (180-103809-12)	3/18/20	Eastern	Water	Water	X	X	X	X	X	1	
FB-1 3-18-20 (180-103809-13)	3/18/20	14:55 Eastern	Water	Water	X	X	X	X	X	1	
FB-2 3-19-20 (180-103809-14)	3/19/20	12:30 Eastern	Water	Water	X	X	X	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the labo</p>											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 2											
Empty Kit Relinquished by:											
Relinquished by: [Signature]											
Relinquished by: FE											
Relinquished by:											
Custody Seals Intact: Custody Seal No.:											
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements:											
Time:											
Method of Shipment:											
Received by: FE											
Date/Time: 3/23/20 17:00											
Company: [Signature]											
Received by: Michaela Kenninghy											
Date/Time: 3/24/2020 08:15											
Company: EIA SR											
Received by:											
Date/Time:											
Company:											
Cooler Temperature(s) °C and Other Remarks:											



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-103809-2

Login Number: 103809

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: 180-103809-2

Login Number: 103809

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 03/24/20 06:45 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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-105386-1

Client Project/Site: CCR - Plant Wansley Ash Pond
Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
6/1/2020 11:41:07 AM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

Job ID: 180-105386-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-105386-1

060120 Revised report to remove Antimony per client request. This report replaces the report previously issued on 051820.

Receipt

The samples were received on 5/6/2020 9:20 AM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The reference method requires samples to be preserved to a pH of less than 2. The following sample (180-105386-A-3) was received with insufficient preservation at a pH of 7: WGWC-19 (180-105386-1), EB-1-5-4-2020 (180-105386-2) and Dup-1 (180-105386-3). The sample was preserved to the appropriate pH in the laboratory.

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: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

Qualifiers

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: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20 *
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-105386-1	WGWC-19	Water	05/04/20 11:15	05/06/20 09:20	
180-105386-2	EB-1-5-4-2020	Water	05/04/20 11:00	05/06/20 09:20	
180-105386-3	Dup-1	Water	05/04/20 00:00	05/06/20 09:20	

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Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

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: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-105386-1

Date Collected: 05/04/20 11:15

Matrix: Water

Date Received: 05/06/20 09:20

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			315658	05/16/20 18:07	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	314849	05/07/20 16:07	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			315496	05/13/20 22:13	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	314849	05/07/20 16:07	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			315543	05/14/20 18:39	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	314833	05/07/20 16:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			314888	05/07/20 20:00	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	314792	05/07/20 09:15	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			315129	05/04/20 11:15	FDS	TAL PIT

Client Sample ID: EB-1-5-4-2020

Lab Sample ID: 180-105386-2

Date Collected: 05/04/20 11:00

Matrix: Water

Date Received: 05/06/20 09:20

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			315658	05/16/20 18:23	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	314849	05/07/20 16:07	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			315496	05/13/20 22:17	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	314849	05/07/20 16:07	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			315543	05/14/20 18:50	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	314833	05/07/20 16:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			314888	05/07/20 20:01	NAM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	314792	05/07/20 09:15	AVS	TAL PIT

Client Sample ID: Dup-1

Lab Sample ID: 180-105386-3

Date Collected: 05/04/20 00:00

Matrix: Water

Date Received: 05/06/20 09:20

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			315658	05/16/20 18:39	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	314849	05/07/20 16:07	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			315496	05/13/20 22:20	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

Client Sample ID: Dup-1
Date Collected: 05/04/20 00:00
Date Received: 05/06/20 09:20

Lab Sample ID: 180-105386-3
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	314849	05/07/20 16:07	JL	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			315543	05/14/20 18:53	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	314833	05/07/20 16:00	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			314888	05/07/20 20:02	NAM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	314792	05/07/20 09:15	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

JL = James Lyu

NAM = Nicole Marfisi

Batch Type: Analysis

AVS = Abbey Smith

FDS = Sampler Field

MJH = Matthew Hartman

NAM = Nicole Marfisi

RSK = Robert Kurtz



Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-105386-1

Date Collected: 05/04/20 11:15

Matrix: Water

Date Received: 05/06/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.32	mg/L			05/16/20 18:07	1
Fluoride	0.36		0.10	0.026	mg/L			05/16/20 18:07	1
Sulfate	4.5		1.0	0.38	mg/L			05/16/20 18:07	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		05/07/20 16:07	05/13/20 22:13	1
Barium	<0.0016		0.010	0.0016	mg/L		05/07/20 16:07	05/13/20 22:13	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		05/07/20 16:07	05/13/20 22:13	1
Boron	<0.039		0.080	0.039	mg/L		05/07/20 16:07	05/13/20 22:13	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		05/07/20 16:07	05/13/20 22:13	1
Calcium	15		0.50	0.13	mg/L		05/07/20 16:07	05/13/20 22:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/07/20 16:07	05/13/20 22:13	1
Cobalt	0.00018	J	0.00050	0.00013	mg/L		05/07/20 16:07	05/13/20 22:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		05/07/20 16:07	05/13/20 22:13	1
Lithium	0.049		0.0050	0.0034	mg/L		05/07/20 16:07	05/14/20 18:39	1
Molybdenum	0.0013	J	0.0050	0.00061	mg/L		05/07/20 16:07	05/13/20 22:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		05/07/20 16:07	05/13/20 22:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		05/07/20 16:07	05/13/20 22:13	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/07/20 16:00	05/07/20 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			05/07/20 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.90				SU			05/04/20 11:15	1

Client Sample ID: EB-1-5-4-2020

Lab Sample ID: 180-105386-2

Date Collected: 05/04/20 11:00

Matrix: Water

Date Received: 05/06/20 09:20

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			05/16/20 18:23	1
Fluoride	<0.026		0.10	0.026	mg/L			05/16/20 18:23	1
Sulfate	<0.38		1.0	0.38	mg/L			05/16/20 18:23	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		05/07/20 16:07	05/13/20 22:17	1
Barium	<0.0016		0.010	0.0016	mg/L		05/07/20 16:07	05/13/20 22:17	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		05/07/20 16:07	05/13/20 22:17	1
Boron	<0.039		0.080	0.039	mg/L		05/07/20 16:07	05/13/20 22:17	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		05/07/20 16:07	05/13/20 22:17	1
Calcium	<0.13		0.50	0.13	mg/L		05/07/20 16:07	05/13/20 22:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/07/20 16:07	05/13/20 22:17	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

Client Sample ID: EB-1-5-4-2020

Lab Sample ID: 180-105386-2

Date Collected: 05/04/20 11:00

Matrix: Water

Date Received: 05/06/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00013		0.00050	0.00013	mg/L		05/07/20 16:07	05/13/20 22:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		05/07/20 16:07	05/13/20 22:17	1
Lithium	<0.0034		0.0050	0.0034	mg/L		05/07/20 16:07	05/14/20 18:50	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		05/07/20 16:07	05/13/20 22:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		05/07/20 16:07	05/13/20 22:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		05/07/20 16:07	05/13/20 22:17	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/07/20 16:00	05/07/20 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			05/07/20 09:15	1

Client Sample ID: Dup-1

Lab Sample ID: 180-105386-3

Date Collected: 05/04/20 00:00

Matrix: Water

Date Received: 05/06/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.32	mg/L			05/16/20 18:39	1
Fluoride	0.29		0.10	0.026	mg/L			05/16/20 18:39	1
Sulfate	4.3		1.0	0.38	mg/L			05/16/20 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		05/07/20 16:07	05/13/20 22:20	1
Barium	<0.0016		0.010	0.0016	mg/L		05/07/20 16:07	05/13/20 22:20	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		05/07/20 16:07	05/13/20 22:20	1
Boron	<0.039		0.080	0.039	mg/L		05/07/20 16:07	05/13/20 22:20	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		05/07/20 16:07	05/13/20 22:20	1
Calcium	15		0.50	0.13	mg/L		05/07/20 16:07	05/13/20 22:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/07/20 16:07	05/13/20 22:20	1
Cobalt	0.00017	J	0.00050	0.00013	mg/L		05/07/20 16:07	05/13/20 22:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		05/07/20 16:07	05/13/20 22:20	1
Lithium	0.051		0.0050	0.0034	mg/L		05/07/20 16:07	05/14/20 18:53	1
Molybdenum	0.0013	J	0.0050	0.00061	mg/L		05/07/20 16:07	05/13/20 22:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		05/07/20 16:07	05/13/20 22:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		05/07/20 16:07	05/13/20 22:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/07/20 16:00	05/07/20 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			05/07/20 09:15	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

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

Lab Sample ID: MB 180-315658/6
Matrix: Water
Analysis Batch: 315658

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			05/16/20 10:28	1
Fluoride	<0.026		0.10	0.026	mg/L			05/16/20 10:28	1
Sulfate	<0.38		1.0	0.38	mg/L			05/16/20 10:28	1

Lab Sample ID: LCS 180-315658/5
Matrix: Water
Analysis Batch: 315658

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	2.43		mg/L		97	90 - 110
Sulfate	50.0	48.3		mg/L		97	90 - 110

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

Lab Sample ID: MB 180-314849/1-A
Matrix: Water
Analysis Batch: 315496

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 314849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		05/07/20 16:07	05/13/20 21:42	1
Barium	<0.0016		0.010	0.0016	mg/L		05/07/20 16:07	05/13/20 21:42	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		05/07/20 16:07	05/13/20 21:42	1
Boron	<0.039		0.080	0.039	mg/L		05/07/20 16:07	05/13/20 21:42	1
Cadmium	<0.00022		0.0010	0.00022	mg/L		05/07/20 16:07	05/13/20 21:42	1
Calcium	<0.13		0.50	0.13	mg/L		05/07/20 16:07	05/13/20 21:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		05/07/20 16:07	05/13/20 21:42	1
Cobalt	<0.00013		0.00050	0.00013	mg/L		05/07/20 16:07	05/13/20 21:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		05/07/20 16:07	05/13/20 21:42	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		05/07/20 16:07	05/13/20 21:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		05/07/20 16:07	05/13/20 21:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		05/07/20 16:07	05/13/20 21:42	1

Lab Sample ID: MB 180-314849/1-A
Matrix: Water
Analysis Batch: 315543

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 314849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0050	0.0034	mg/L		05/07/20 16:07	05/14/20 18:29	1

Lab Sample ID: LCS 180-314849/2-A
Matrix: Water
Analysis Batch: 315496

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 314849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.500	0.437		mg/L		87	80 - 120
Boron	1.25	1.13		mg/L		90	80 - 120
Cadmium	0.500	0.522		mg/L		104	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

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

Lab Sample ID: LCS 180-314849/2-A
Matrix: Water
Analysis Batch: 315496

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 314849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	28.3		mg/L		113	80 - 120
Chromium	0.500	0.507		mg/L		101	80 - 120
Cobalt	0.500	0.501		mg/L		100	80 - 120
Lead	0.500	0.521		mg/L		104	80 - 120
Molybdenum	0.500	0.509		mg/L		102	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120

Lab Sample ID: LCS 180-314849/2-A
Matrix: Water
Analysis Batch: 315543

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 314849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.472		mg/L		94	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-314833/1-A
Matrix: Water
Analysis Batch: 314888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		05/07/20 16:00	05/07/20 19:53	1

Lab Sample ID: LCS 180-314833/2-A
Matrix: Water
Analysis Batch: 314888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00263		mg/L		105	80 - 120

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

Lab Sample ID: MB 180-314792/2
Matrix: Water
Analysis Batch: 314792

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			05/07/20 09:15	1

Lab Sample ID: LCS 180-314792/1
Matrix: Water
Analysis Batch: 314792

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	192	202		mg/L		105	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

HPLC/IC

Analysis Batch: 315658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-105386-2	EB-1-5-4-2020	Total/NA	Water	EPA 300.0 R2.1	
180-105386-3	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-315658/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-315658/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 314833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total/NA	Water	7470A	
180-105386-2	EB-1-5-4-2020	Total/NA	Water	7470A	
180-105386-3	Dup-1	Total/NA	Water	7470A	
MB 180-314833/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-314833/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 314849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total Recoverable	Water	3005A	
180-105386-2	EB-1-5-4-2020	Total Recoverable	Water	3005A	
180-105386-3	Dup-1	Total Recoverable	Water	3005A	
MB 180-314849/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-314849/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 314888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total/NA	Water	EPA 7470A	314833
180-105386-2	EB-1-5-4-2020	Total/NA	Water	EPA 7470A	314833
180-105386-3	Dup-1	Total/NA	Water	EPA 7470A	314833
MB 180-314833/1-A	Method Blank	Total/NA	Water	EPA 7470A	314833
LCS 180-314833/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	314833

Analysis Batch: 315496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total Recoverable	Water	EPA 6020B	314849
180-105386-2	EB-1-5-4-2020	Total Recoverable	Water	EPA 6020B	314849
180-105386-3	Dup-1	Total Recoverable	Water	EPA 6020B	314849
MB 180-314849/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	314849
LCS 180-314849/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	314849

Analysis Batch: 315543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total Recoverable	Water	EPA 6020B	314849
180-105386-2	EB-1-5-4-2020	Total Recoverable	Water	EPA 6020B	314849
180-105386-3	Dup-1	Total Recoverable	Water	EPA 6020B	314849
MB 180-314849/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	314849
LCS 180-314849/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	314849

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-1

General Chemistry

Analysis Batch: 314792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total/NA	Water	SM 2540C	
180-105386-2	EB-1-5-4-2020	Total/NA	Water	SM 2540C	
180-105386-3	Dup-1	Total/NA	Water	SM 2540C	
MB 180-314792/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-314792/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 315129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total/NA	Water	Field Sampling	

Client Information Client Contact: Owens Fuquea Joju Abraham Southern Company Address: PO BOX 2641 GSC8 Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia				Lab PM: Veronica Bortot E-Mail: (Veronica.Bortot@testamericainc.com)				Carrier Tracking No(s): COC No: Page: Job #	
Due Date Requested: TAT Requested (days): <i>3-Day TAT</i> PO #: SCS10347656 WO #: _____ Project #: 40007709 SSOW#: _____				Analysis Requested				Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification Sample Date: 5/4/20 Sample Time: 1115 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air): W				Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes App. III Metals: <input checked="" type="checkbox"/> Yes Detected App IV Metals (See list below) Radium 226 & 228 (SW-846 9315/9320)				Total Number of Containers: _____ Special Instructions/Note: pH= 6.90 pH= NA pH= NA pH= _____ pH= _____ pH= _____ pH= _____ pH= _____	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				Special Instructions/QC Requirements:	
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: 5/3/20 1040 Company: ACC Relinquished by: _____ Date/Time: 5/5/20 1600 Company: CAT Relinquished by: _____ Date/Time: _____ Company: _____				Method of Shipment: _____ Relinquished by: _____ Date/Time: 5/3/20 1040 Company: TA Relinquished by: _____ Date/Time: 5/6/20 920 Company: EMP/PH Relinquished by: _____ Date/Time: _____ Company: _____				Cooler Temperature(s) °C and Other Remarks:	



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

TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 05MAY20
ACTWGT: 54.85 LB
CAD: 859116/CAFE3313

BILL RECEIPT

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

(412) 963-7068

REF: SOUTHERN CO



FedEx
Express



AP10020200LP

TRK# 1516 9323 4891
0201

WED - 06 MAY 3:00P
STANDARD OVERNIGHT

NA AGCA

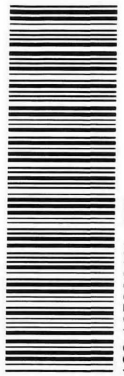
15238

PA-US PIT

Uncorrected temp 26 °C
Thermometer ID 17

CF 0 Initials TS

PT-WI-SR-001 effective 7/26/13



180-105386 Waybill

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-105386-1

Login Number: 105386

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.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

ANALYTICAL REPORT

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

Laboratory Job ID: 180-105386-2

Client Project/Site: CCR - Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
6/5/2020 8:34:02 PM

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

LINKS

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results through
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www.eurofinsus.com/Env

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: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Job ID: 180-105386-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-105386-2

Comments

No additional comments.

Receipt

The samples were received on 5/6/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

Receipt Exceptions

The reference method requires samples to be preserved to a pH of less than 2. The following sample (180-105386-A-3) was received with insufficient preservation at a pH of 7: The sample was preserved to the appropriate pH in the laboratory.

RAD

Methods 903.0, 9315: Ra-226 Prep Batch 160-470201

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.

WGWC-19 (180-105386-1), EB-1-5-4-2020 (180-105386-2), Dup-1 (180-105386-3), (LCS 160-470201/1-A) and (MB 160-470201/23-A)

Methods 904.0, 9320: Ra-228 Prep Batch 160-470205

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.

WGWC-19 (180-105386-1), EB-1-5-4-2020 (180-105386-2), Dup-1 (180-105386-3), (LCS 160-470205/1-A) and (MB 160-470205/23-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: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

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.
▫	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: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-20
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-20 *
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-105386-1	WGWC-19	Water	05/04/20 11:15	05/06/20 09:20	
180-105386-2	EB-1-5-4-2020	Water	05/04/20 11:00	05/06/20 09:20	
180-105386-3	Dup-1	Water	05/04/20 00:00	05/06/20 09:20	

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Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

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: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-105386-1

Date Collected: 05/04/20 11:15

Matrix: Water

Date Received: 05/06/20 09:20

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	470201	05/12/20 09:20	RBR	TAL SL
Total/NA	Analysis	9315		1			471867	06/03/20 04:14	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.32 mL	1.0 g	470205	05/12/20 10:02	RBR	TAL SL
Total/NA	Analysis	9320		1			471096	05/21/20 16:41	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			471874	06/03/20 09:41	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1-5-4-2020

Lab Sample ID: 180-105386-2

Date Collected: 05/04/20 11:00

Matrix: Water

Date Received: 05/06/20 09:20

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			1000.06 mL	1.0 g	470201	05/12/20 09:20	RBR	TAL SL
Total/NA	Analysis	9315		1			471867	06/03/20 04:14	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.06 mL	1.0 g	470205	05/12/20 10:02	RBR	TAL SL
Total/NA	Analysis	9320		1			471096	05/21/20 16:41	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			471874	06/03/20 09:41	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Lab Sample ID: 180-105386-3

Date Collected: 05/04/20 00:00

Matrix: Water

Date Received: 05/06/20 09:20

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	470201	05/12/20 09:20	RBR	TAL SL
Total/NA	Analysis	9315		1			471867	06/03/20 04:14	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.07 mL	1.0 g	470205	05/12/20 10:02	RBR	TAL SL
Total/NA	Analysis	9320		1			471096	05/21/20 16:41	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			471874	06/03/20 09:41	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

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Analyst References:

- Lab: TAL SL
- Batch Type: Prep
 - RBR = Rachael Ratcliff
- Batch Type: Analysis
 - AJD = Audra DeMariano
 - KLS = Kody Saulters
 - SMP = Siobhan Perry

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-105386-1

Date Collected: 05/04/20 11:15

Matrix: Water

Date Received: 05/06/20 09:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0224	U	0.0582	0.0583	1.00	0.108	pCi/L	05/12/20 09:20	06/03/20 04:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					05/12/20 09:20	06/03/20 04:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0472	U	0.275	0.275	1.00	0.484	pCi/L	05/12/20 10:02	05/21/20 16:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					05/12/20 10:02	05/21/20 16:41	1
Y Carrier	80.7		40 - 110					05/12/20 10:02	05/21/20 16:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0697	U	0.281	0.281	2.00	0.484	pCi/L		06/03/20 09:41	1

Client Sample ID: EB-1-5-4-2020

Lab Sample ID: 180-105386-2

Date Collected: 05/04/20 11:00

Matrix: Water

Date Received: 05/06/20 09:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0337	U	0.0584	0.0585	1.00	0.137	pCi/L	05/12/20 09:20	06/03/20 04:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					05/12/20 09:20	06/03/20 04:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0673	U	0.323	0.323	1.00	0.587	pCi/L	05/12/20 10:02	05/21/20 16:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.2		40 - 110					05/12/20 10:02	05/21/20 16:41	1
Y Carrier	81.5		40 - 110					05/12/20 10:02	05/21/20 16:41	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Client Sample ID: EB-1-5-4-2020

Lab Sample ID: 180-105386-2

Date Collected: 05/04/20 11:00

Matrix: Water

Date Received: 05/06/20 09:20

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	-0.101	U	0.328	0.328	2.00	0.587	pCi/L		06/03/20 09:41	1

Client Sample ID: Dup-1

Lab Sample ID: 180-105386-3

Date Collected: 05/04/20 00:00

Matrix: Water

Date Received: 05/06/20 09:20

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00756	U	0.0587	0.0587	1.00	0.125	pCi/L	05/12/20 09:20	06/03/20 04:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					05/12/20 09:20	06/03/20 04:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0433	U	0.289	0.289	1.00	0.511	pCi/L	05/12/20 10:02	05/21/20 16:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					05/12/20 10:02	05/21/20 16:41	1
Y Carrier	84.9		40 - 110					05/12/20 10:02	05/21/20 16:41	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0357	U	0.295	0.295	2.00	0.511	pCi/L		06/03/20 09:41	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-470201/23-A
Matrix: Water
Analysis Batch: 471867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470201

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01889	U	0.0404	0.0404	1.00	0.0751	pCi/L	05/12/20 09:20	06/03/20 06:01	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	95.5		40 - 110					05/12/20 09:20	06/03/20 06:01	1

Lab Sample ID: LCS 160-470201/1-A
Matrix: Water
Analysis Batch: 471867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470201

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.19		1.17	1.00	0.124	pCi/L	99	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	75.3		40 - 110					05/12/20 09:20	06/03/20 06:01

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-470205/23-A
Matrix: Water
Analysis Batch: 471097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470205

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2344	U	0.283	0.284	1.00	0.468	pCi/L	05/12/20 10:02	05/21/20 16:39	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	95.5		40 - 110					05/12/20 10:02	05/21/20 16:39	1
Y Carrier	86.0		40 - 110		05/12/20 10:02	05/21/20 16:39	1			

Lab Sample ID: LCS 160-470205/1-A
Matrix: Water
Analysis Batch: 471096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470205

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	8.82	9.366		1.17	1.00	0.544	pCi/L	106	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	75.3		40 - 110					05/12/20 10:02	05/21/20 16:39
Y Carrier	81.5		40 - 110		05/12/20 10:02	05/21/20 16:39	1		

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-105386-2

Rad

Prep Batch: 470201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total/NA	Water	PrecSep-21	
180-105386-2	EB-1-5-4-2020	Total/NA	Water	PrecSep-21	
180-105386-3	Dup-1	Total/NA	Water	PrecSep-21	
MB 160-470201/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-470201/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 470205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-105386-1	WGWC-19	Total/NA	Water	PrecSep_0	
180-105386-2	EB-1-5-4-2020	Total/NA	Water	PrecSep_0	
180-105386-3	Dup-1	Total/NA	Water	PrecSep_0	
MB 160-470205/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-470205/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information				Lab PM: Veronica Bortot				Carrier Tracking No(s):				COC No:			
Client Contact: Owens Fuquea				E-Mail: (Veronica.Bortot@testamericainc.com)				Page:				Job #:			
Southern Company				Lab PM: Veronica Bortot				Carrier Tracking No(s):				COC No:			
Address: PO BOX 2641 GSC8				City: Birmingham				State, Zip: AL, 35291				Phone: 770-548-5998			
PO #: SCS10347656				WO #: 40007709				Project #: CCR - Plant Wansley - Ash Pond				Site: Georgia			
Email: JAbraham@southernco.com				SSOW#: 40007709											
Due Date Requested:				Analysis Requested				Sample Identification				Special Instructions/Note:			
TAT Requested (days): 3-Day TAT				Field Filtered Sample (Yes or No) N				Perform MS/MSD (Yes or No) N				App. III Metals D			
Sample Date				Sample Time				Sample Type (C=Comp, G=grab)				Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=Air)			
5/4/20				1115				G				W			
5/4/20				1100				G				W			
--				--				G				W			
				G				W							
				G				W							
				G				W							
				G				W							
				G				W							
				G				W							
				G				W							
				G				W							
				G				W							
				G				W							

<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Possible Hazard Identification Deliverable Requested: I, II, III, IV, Other (specify)				Total Number of Containers: X			
<input type="checkbox"/> Empty Kit Relinquished by:				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months				Special Instructions/Note:			
Relinquished by: <i>[Signature]</i>				Date: 5/3/20 1040				Company: ACC			
Relinquished by: <i>[Signature]</i>				Date: 5/5/20 1615w				Company: EAMP			
Relinquished by: <i>[Signature]</i>				Date: 5/6/20 920				Company: EAMP			
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:			



TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 05MAY20
ACTWGT: 54.85 LB
CAD: 859116/CAFE3313

BILL RECEIPT

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

(412) 963-7068

REF: SOUTHERN CO



FedEx Express



AP10020200LP

TRK# 1516 9323 4891
0201

WED - 06 MAY 3:00P
STANDARD OVERNIGHT

NA AGCA

15238

PA-US PIT

Uncorrected temp 26 °C
Thermometer ID 17

CF Initials JS

PT-WI-SR-001 effective 7/26/13



180-105386 Waybill



Chain of Custody Record



Client Information (Sub Contract Lab)
 Client Contact: **Brown, Shali**
 Shipping/Receiving: **shali.brown@testamericainc.com**
 Company: **TestAmerica Laboratories, Inc.**
 Address: **13715 Rider Trail North, Earth City, MO, 63045**
 Phone: **314-298-8566 (Tel) 314-298-8757 (Fax)**
 Email:
 Project Name: **CCR - Plant Wansley Ash Pond**
 Site: **Wansley CCR**

Sampler: Lab PM: **Brown, Shali**
 Phone:
 Due Date Requested: **6/5/2020**
 TAT Requested (days):
 PO #:
 WO #:
 Project #:
 18019922
 SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, ST=ISSUES, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 (MOD) Copy Analytes	9315_Ra226/PreSep_21 (MOD) Copy Analytes	Ra226Ra228_GFPc (MOD) Local Method	Total Number of Containers	Special Instructions/Note:
WGWC-19 (180-105386-1)	5/4/20	11:15 Eastern	Water	Water			X	X		1	
EB-1-5-4-2020 (180-105386-2)	5/4/20	11:00 Eastern	Water	Water			X	X		2	
Dup-1 (180-105386-3)	5/4/20	Eastern	Water	Water			X	X		1	

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)
 Other:

Analysis Requested:
 9320_Ra228/PreSep_0 (MOD) Copy Analytes
 9315_Ra226/PreSep_21 (MOD) Copy Analytes
 Ra226Ra228_GFPc (MOD) Local Method

Special Instructions/Note:

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: Time:
 Relinquished by: **FEDEX** Date: **5/6/20** Time: **1700**
 Relinquished by: **FEDEX** Date: **5/6/20** Time: **1700**
 Relinquished by: **FEDEX** Date: **5/6/20** Time: **1700**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: **FEDEX** Date/Time:
 Received by: **[Signature]** Date/Time: **5/30/20** Company: **ETA STU**
 Reported by: Date/Time: Company:
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)

Client Contact: **Brown, Shali**
 Shipping/Receiving
 Company: **TestAmerica Laboratories, Inc.**
 Address: **13715 Rider Trail North,**
 City: **Earth City**
 State, Zip: **MO, 63045**
 Phone: **314-298-8566(Tel) 314-298-8757(Fax)**
 Email:
 Project Name: **CCR - Plant Wansley Ash Pond**
 Site: **Wansley CCR**

Lab PM: **Brown, Shali**
 E-Mail: **shali.brown@testamericainc.com**
 State of Origin: **Georgia**
 Carrier Tracking No(s):
 COC No: **180-393008.1**
 Page: **Page 1 of 1**
 Job #: **180-105386-2**

Due Date Requested: 6/5/2020
TAT Requested (days):

Analysis Requested

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - NaZOHs
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)				Total Number of Containers	Special Instructions/Note:
					Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 (MOD) Copy Analytes	9315_Ra226/PreSep_21 (MOD) Copy Analytes	Ra226Ra228_GFP/ (MOD) Local Method		
WGWC-19 (180-105386-1)	5/4/20	11:15 Eastern	Water	Water	X	X	X		1	
EB-1-5-4-2020 (180-105386-2)	5/4/20	11:00 Eastern	Water	Water	X	X	X		2	
Dup-1 (180-105386-3)	5/4/20	Eastern	Water	Water	X	X	X		1	

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For **Months**

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: **FEDEX** Date/Time: **5/16/20 1700**
 Relinquished by: **FEDEX** Date/Time: **5/16/20 1700**
 Relinquished by: *[Signature]* Date/Time: **5/16/20 0920**
 Custody Seals Intact: **Custody Seal No.:**
 Δ Yes Δ No

Received by: **FEDEX** Date/Time: _____
 Received by: *[Signature]* Date/Time: _____
 Received by: _____ Date/Time: _____
 Company: **Eurofins**
 Company: **Eurofins**
 Company: **Eurofins**

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-105386-2

Login Number: 105386

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.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-105386-2

Login Number: 105386

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/07/20 12:56 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	180-105386-A-3 received unprservd. Preserved upon arrival to lab.
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	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-111399-1

Client Project/Site: CCR - Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
10/27/2020 11:00:08 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Job ID: 180-111399-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-111399-1

Comments

No additional comments.

Receipt

The samples were received on 9/24/2020 9:15 AM and 9/26/2020 9:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.9° C, 1.9° C, 2.1° C, 2.4° C, 2.7° C and 3.4° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC wasn't relinquished.

GC Semi VOA

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

Metals

Method 6020B: The post digestion spike % recovery for phosphorus associated with batch 180-332751 was outside of control limits. The associated sample is: Dup-1 (180-111399-1).

Methods 6020A, 6020B: The low level continuing calibration verification (CCVL) associated with batch 180-333527 recovered above the upper control limit for iron. The samples associated with the CCVL were non-detects for the affected analytes and 10X the RL for the affected analytes; therefore, the data have been reported.

Methods 245.1, 7470A: The laboratory control sample (LCS) for preparation batch 180-332971 and analytical batch 180-333510 recovered outside control limits for the following analytes: Mercury These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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
*	LCS or LCSD is outside acceptance 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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21
California	State	2891	04-30-21
Connecticut	State	PH-0688	09-30-20 *
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-21
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-20
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-20
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-21
North Carolina (WW/SW)	State	434	01-01-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-21
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-20
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-21
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	02-01-21
Wisconsin	State	998027800	08-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-111399-1	Dup-1	Water	09/21/20 00:00	09/24/20 09:15	
180-111399-2	EB-1-9-22-20	Water	09/22/20 11:20	09/24/20 09:15	
180-111399-3	FB-1-9-22-20	Water	09/22/20 14:10	09/24/20 09:15	
180-111399-4	WGWA-2	Water	09/21/20 12:10	09/24/20 09:15	
180-111399-5	WGWA-4	Water	09/21/20 14:00	09/24/20 09:15	
180-111399-6	WGWA-3	Water	09/21/20 15:01	09/24/20 09:15	
180-111399-7	WGWA-1	Water	09/22/20 10:57	09/24/20 09:15	
180-111399-8	WGWA-5	Water	09/22/20 12:20	09/24/20 09:15	
180-111399-9	WGWA-6	Water	09/22/20 10:30	09/24/20 09:15	
180-111399-10	WGWA-7	Water	09/22/20 14:20	09/24/20 09:15	
180-111399-11	WGWA-18	Water	09/22/20 13:15	09/24/20 09:15	
180-111399-12	WGWC-8	Water	09/22/20 14:30	09/24/20 09:15	
180-111526-1	Dup-2	Water	09/23/20 00:00	09/26/20 09:00	
180-111526-2	EB-2-9-24-20	Water	09/24/20 11:50	09/26/20 09:00	
180-111526-3	FB-2-9-24-20	Water	09/24/20 10:00	09/26/20 09:00	
180-111526-4	WGWC-17	Water	09/23/20 11:11	09/26/20 09:00	
180-111526-5	WGWC-10	Water	09/23/20 12:25	09/26/20 09:00	
180-111526-6	WGWC-15	Water	09/23/20 14:35	09/26/20 09:00	
180-111526-7	WGWC-16	Water	09/23/20 13:30	09/26/20 09:00	
180-111526-8	WGWC-9	Water	09/23/20 15:50	09/26/20 09:00	
180-111526-9	WGWC-13	Water	09/24/20 11:05	09/26/20 09:00	
180-111526-10	WGWC-14A	Water	09/24/20 09:55	09/26/20 09:00	
180-111526-11	WGWC-19	Water	09/23/20 15:00	09/26/20 09:00	
180-111526-12	WGWC-11	Water	09/24/20 10:20	09/26/20 09:00	
180-111526-13	WGWC-12	Water	09/23/20 13:55	09/26/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: Dup-1

Lab Sample ID: 180-111399-1

Date Collected: 09/21/20 00:00

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/02/20 18:10	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 15:55	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332349	10/05/20 18:35	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332694	10/07/20 16:50	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT

Client Sample ID: EB-1-9-22-20

Lab Sample ID: 180-111399-2

Date Collected: 09/22/20 11:20

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/02/20 22:39	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 16:12	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332506	10/07/20 18:42	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332827	10/08/20 18:45	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT

Client Sample ID: FB-1-9-22-20

Lab Sample ID: 180-111399-3

Date Collected: 09/22/20 14:10

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/02/20 23:43	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 16:15	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332506	10/07/20 18:42	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332827	10/08/20 18:46	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-111399-4

Date Collected: 09/21/20 12:10

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/02/20 21:36	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 16:18	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332349	10/05/20 18:35	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332694	10/07/20 16:51	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			333009	09/21/20 12:10	AGJ	TAL PIT

Client Sample ID: WGWA-4

Lab Sample ID: 180-111399-5

Date Collected: 09/21/20 14:00

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/02/20 21:52	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 16:20	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332349	10/05/20 18:35	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332694	10/07/20 16:52	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			333009	09/21/20 14:00	AGJ	TAL PIT

Client Sample ID: WGWA-3

Lab Sample ID: 180-111399-6

Date Collected: 09/21/20 15:01

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/02/20 22:55	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 16:23	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332349	10/05/20 18:35	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332694	10/07/20 16:53	KEM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-111399-6

Date Collected: 09/21/20 15:01

Matrix: Water

Date Received: 09/24/20 09:15

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	331211	09/25/20 06:48	AVS	TAL PIT
Total/NA	Analysis	Field Sampling		1			333009	09/21/20 15:01	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-1

Lab Sample ID: 180-111399-7

Date Collected: 09/22/20 10:57

Matrix: Water

Date Received: 09/24/20 09:15

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			332056	10/02/20 23:59	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 16:25	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	332506	10/07/20 18:42	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			332827	10/08/20 18:47	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333009	09/22/20 10:57	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-111399-8

Date Collected: 09/22/20 12:20

Matrix: Water

Date Received: 09/24/20 09:15

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			332056	10/03/20 00:14	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 16:28	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	332506	10/07/20 18:42	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			332827	10/08/20 18:48	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333009	09/22/20 12:20	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-111399-9

Date Collected: 09/22/20 10:30

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/03/20 00:30	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 16:36	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332506	10/07/20 18:42	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332827	10/08/20 18:49	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			333009	09/22/20 10:30	AGJ	TAL PIT

Client Sample ID: WGWA-7

Lab Sample ID: 180-111399-10

Date Collected: 09/22/20 14:20

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/03/20 00:46	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 16:38	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332506	10/07/20 18:42	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332827	10/08/20 18:50	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			333009	09/22/20 14:20	AGJ	TAL PIT

Client Sample ID: WGWA-18

Lab Sample ID: 180-111399-11

Date Collected: 09/22/20 13:15

Matrix: Water

Date Received: 09/24/20 09:15

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: CHIC2100A		1			332056	10/03/20 01:02	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			332836	10/08/20 16:41	RSK	TAL PIT
Total/NA	Prep	7470A			50 mL	50 mL	332506	10/07/20 18:42	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			332827	10/08/20 18:51	KEM	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-111399-11

Date Collected: 09/22/20 13:15

Matrix: Water

Date Received: 09/24/20 09:15

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	331211	09/25/20 06:48	AVS	TAL PIT
Total/NA	Analysis	Field Sampling		1			333009	09/22/20 13:15	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-111399-12

Date Collected: 09/22/20 14:30

Matrix: Water

Date Received: 09/24/20 09:15

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			332056	10/03/20 01:49	EPS	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	EPA 300.0 R2.1		1			332194	10/03/20 19:14	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332470	10/06/20 13:44	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			332836	10/08/20 16:44	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	332507	10/07/20 18:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			332827	10/08/20 18:59	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331211	09/25/20 06:48	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333009	09/22/20 14:30	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-111526-1

Date Collected: 09/23/20 00:00

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 10:53	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332954	10/10/20 10:18	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			333527	10/14/20 11:19	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			50 mL	50 mL	332507	10/07/20 18:43	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			332827	10/08/20 19:18	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: EB-2-9-24-20

Lab Sample ID: 180-111526-2

Date Collected: 09/24/20 11:50

Matrix: Water

Date Received: 09/26/20 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: CHIC2100A		1			332252	10/05/20 10:21	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332954	10/10/20 10:18	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			333527	10/14/20 11:21	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	332971	10/12/20 10:01	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			333510	10/14/20 16:23	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT

Client Sample ID: FB-2-9-24-20

Lab Sample ID: 180-111526-3

Date Collected: 09/24/20 10:00

Matrix: Water

Date Received: 09/26/20 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: CHIC2100A		1			332252	10/05/20 10:37	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			334010	10/17/20 14:54	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			334271	10/21/20 10:34	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	332971	10/12/20 10:01	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			333510	10/14/20 16:24	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT

Client Sample ID: WGWC-17

Lab Sample ID: 180-111526-4

Date Collected: 09/23/20 11:11

Matrix: Water

Date Received: 09/26/20 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: CHIC2100A		1			332252	10/05/20 11:09	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			334010	10/17/20 14:58	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			334271	10/21/20 10:37	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	332871	10/09/20 12:31	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			333677	10/15/20 19:56	KEM	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-111526-4

Date Collected: 09/23/20 11:11

Matrix: Water

Date Received: 09/26/20 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	331565	09/29/20 06:43	AVS	TAL PIT
Total/NA	Analysis	Field Sampling		1			333008	09/23/20 11:11	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-111526-5

Date Collected: 09/23/20 12:25

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 11:25	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:01	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 10:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	332871	10/09/20 12:31	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333677	10/15/20 19:57	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/23/20 12:25	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-111526-6

Date Collected: 09/23/20 14:35

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 11:41	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:05	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 10:44	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	332871	10/09/20 12:31	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333677	10/15/20 19:58	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/23/20 14:35	AGJ	TAL PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-111526-7

Date Collected: 09/23/20 13:30

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 11:56	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:08	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 10:48	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	332871	10/09/20 12:31	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333677	10/15/20 19:59	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/23/20 13:30	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-111526-8

Date Collected: 09/23/20 15:50

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 12:12	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:12	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 10:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	332871	10/09/20 12:31	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333677	10/15/20 20:00	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/23/20 15:50	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-111526-9

Date Collected: 09/24/20 11:05

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 13:00	MJH	TAL PIT
Instrument ID: CHIC2100A										

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-111526-9

Date Collected: 09/24/20 11:05

Matrix: Water

Date Received: 09/26/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:16	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 10:55	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	332971	10/12/20 10:01	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333510	10/14/20 16:25	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/24/20 11:05	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-111526-10

Date Collected: 09/24/20 09:55

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 14:35	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:19	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 11:06	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	332971	10/12/20 10:01	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333510	10/14/20 16:26	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/24/20 09:55	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-111526-11

Date Collected: 09/23/20 15:00

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 14:51	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:30	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-111526-11

Date Collected: 09/23/20 15:00

Matrix: Water

Date Received: 09/26/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 11:09	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	332871	10/09/20 12:31	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333677	10/15/20 20:01	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/23/20 15:00	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-111526-12

Date Collected: 09/24/20 10:20

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 15:06	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:33	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 11:13	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	332971	10/12/20 10:01	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333510	10/14/20 16:27	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/24/20 10:20	AGJ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 180-111526-13

Date Collected: 09/23/20 13:55

Matrix: Water

Date Received: 09/26/20 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			332252	10/05/20 15:22	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334010	10/17/20 15:37	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	332956	10/10/20 10:22	KHM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			334271	10/21/20 11:16	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-111526-13

Date Collected: 09/23/20 13:55

Matrix: Water

Date Received: 09/26/20 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	7470A			25 mL	25 mL	332871	10/09/20 12:31	RSR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			333677	10/15/20 20:02	KEM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	331565	09/29/20 06:43	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			333008	09/23/20 13:55	AGJ	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

- KHM = Kyle Mucroski
- MM1 = Mary Beth Miller
- RSR = Roseann Ruyechan
- TJO = Tyler Oliver

Batch Type: Analysis

- AGJ = Andy Johnson
- AVS = Abbey Smith
- EPS = Evan Scheuer
- KEM = Kimberly Mahoney
- MJH = Matthew Hartman
- RSK = Robert Kurtz



Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: Dup-1

Lab Sample ID: 180-111399-1

Date Collected: 09/21/20 00:00

Matrix: Water

Date Received: 09/24/20 09:15

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			10/02/20 18:10	1
Fluoride	<0.026		0.10	0.026	mg/L			10/02/20 18:10	1
Sulfate	0.90	J	1.0	0.38	mg/L			10/02/20 18:10	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		10/06/20 13:44	10/08/20 15:55	1
Barium	0.015		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 15:55	1
Beryllium	0.00022	J	0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 15:55	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 15:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 15:55	1
Calcium	1.8		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 15:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 15:55	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 15:55	1
Lead	0.00013	J	0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 15:55	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 15:55	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 15:55	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 15:55	1
Thallium	0.00026	J	0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 15:55	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/05/20 18:35	10/07/20 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		10	10	mg/L			09/25/20 06:48	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: EB-1-9-22-20

Lab Sample ID: 180-111399-2

Date Collected: 09/22/20 11:20

Matrix: Water

Date Received: 09/24/20 09:15

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			10/02/20 22:39	1
Fluoride	<0.026		0.10	0.026	mg/L			10/02/20 22:39	1
Sulfate	<0.38		1.0	0.38	mg/L			10/02/20 22:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/06/20 13:44	10/08/20 16:12	1
Barium	<0.0016		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:12	1
Beryllium	0.00029	J	0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:12	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:12	1
Calcium	<0.13		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:12	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:12	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:12	1
Thallium	0.00037	J	0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:42	10/08/20 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/25/20 06:48	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: FB-1-9-22-20

Lab Sample ID: 180-111399-3

Date Collected: 09/22/20 14:10

Matrix: Water

Date Received: 09/24/20 09:15

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			10/02/20 23:43	1
Fluoride	<0.026		0.10	0.026	mg/L			10/02/20 23:43	1
Sulfate	<0.38		1.0	0.38	mg/L			10/02/20 23:43	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		10/06/20 13:44	10/08/20 16:15	1
Barium	<0.0016		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:15	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:15	1
Calcium	<0.13		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:15	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:15	1
Thallium	0.00016	J	0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:15	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:42	10/08/20 18:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/25/20 06:48	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-111399-4

Date Collected: 09/21/20 12:10

Matrix: Water

Date Received: 09/24/20 09:15

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			10/02/20 21:36	1
Fluoride	0.037	J	0.10	0.026	mg/L			10/02/20 21:36	1
Sulfate	1.1		1.0	0.38	mg/L			10/02/20 21:36	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		10/06/20 13:44	10/08/20 16:18	1
Barium	0.024		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:18	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:18	1
Calcium	13		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:18	1
Cobalt	0.00054	J	0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:18	1
Lithium	0.0075		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:18	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/05/20 18:35	10/07/20 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.05				SU			09/21/20 12:10	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-111399-5

Date Collected: 09/21/20 14:00

Matrix: Water

Date Received: 09/24/20 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.32	mg/L			10/02/20 21:52	1
Fluoride	0.091	J	0.10	0.026	mg/L			10/02/20 21:52	1
Sulfate	7.7		1.0	0.38	mg/L			10/02/20 21:52	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		10/06/20 13:44	10/08/20 16:20	1
Barium	0.0060	J	0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:20	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:20	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:20	1
Calcium	16		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:20	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:20	1
Lithium	0.0050		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/05/20 18:35	10/07/20 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.81				SU			09/21/20 14:00	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-111399-6

Date Collected: 09/21/20 15:01

Matrix: Water

Date Received: 09/24/20 09:15

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			10/02/20 22:55	1
Fluoride	<0.026		0.10	0.026	mg/L			10/02/20 22:55	1
Sulfate	0.77	J	1.0	0.38	mg/L			10/02/20 22:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/06/20 13:44	10/08/20 16:23	1
Barium	0.015		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:23	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:23	1
Calcium	1.8		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:23	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:23	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/05/20 18:35	10/07/20 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.35				SU			09/21/20 15:01	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-111399-7

Date Collected: 09/22/20 10:57

Matrix: Water

Date Received: 09/24/20 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		1.0	0.32	mg/L			10/02/20 23:59	1
Fluoride	<0.026		0.10	0.026	mg/L			10/02/20 23:59	1
Sulfate	<0.38		1.0	0.38	mg/L			10/02/20 23:59	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		10/06/20 13:44	10/08/20 16:25	1
Barium	0.048		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:25	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:25	1
Calcium	1.2		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:25	1
Cobalt	0.00072	J	0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:25	1
Lithium	0.0036	J	0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:42	10/08/20 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.09				SU			09/22/20 10:57	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-111399-8

Date Collected: 09/22/20 12:20

Matrix: Water

Date Received: 09/24/20 09:15

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			10/03/20 00:14	1
Fluoride	<0.026		0.10	0.026	mg/L			10/03/20 00:14	1
Sulfate	1.5		1.0	0.38	mg/L			10/03/20 00:14	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		10/06/20 13:44	10/08/20 16:28	1
Barium	0.032		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:28	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:28	1
Calcium	58		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:28	1
Cobalt	0.0065		0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:28	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:28	1
Molybdenum	0.0025 J		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:28	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:28	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:42	10/08/20 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.78				SU			09/22/20 12:20	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-111399-9

Date Collected: 09/22/20 10:30

Matrix: Water

Date Received: 09/24/20 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.32	mg/L			10/03/20 00:30	1
Fluoride	0.068	J	0.10	0.026	mg/L			10/03/20 00:30	1
Sulfate	8.0		1.0	0.38	mg/L			10/03/20 00:30	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		10/06/20 13:44	10/08/20 16:36	1
Barium	0.0079	J	0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:36	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:36	1
Calcium	25		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:36	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:36	1
Lithium	0.0049	J	0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:42	10/08/20 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4				SU			09/22/20 10:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-111399-10

Date Collected: 09/22/20 14:20

Matrix: Water

Date Received: 09/24/20 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.32	mg/L			10/03/20 00:46	1
Fluoride	<0.026		0.10	0.026	mg/L			10/03/20 00:46	1
Sulfate	0.38	J	1.0	0.38	mg/L			10/03/20 00:46	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		10/06/20 13:44	10/08/20 16:38	1
Barium	0.013		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:38	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:38	1
Calcium	0.89		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:38	1
Cobalt	0.00015	J	0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:38	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:42	10/08/20 18:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.36				SU			09/22/20 14:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-111399-11

Date Collected: 09/22/20 13:15

Matrix: Water

Date Received: 09/24/20 09:15

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			10/03/20 01:02	1
Fluoride	0.10		0.10	0.026	mg/L			10/03/20 01:02	1
Sulfate	9.0		1.0	0.38	mg/L			10/03/20 01:02	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		10/06/20 13:44	10/08/20 16:41	1
Barium	0.015		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:41	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:41	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:41	1
Calcium	19		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:41	1
Cobalt	0.00033	J	0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:41	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:41	1
Molybdenum	0.00097	J	0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:41	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:42	10/08/20 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	96		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.18				SU			09/22/20 13:15	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-111399-12

Date Collected: 09/22/20 14:30

Matrix: Water

Date Received: 09/24/20 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		1.0	0.32	mg/L			10/03/20 01:49	1
Fluoride	0.14		0.10	0.026	mg/L			10/03/20 01:49	1
Sulfate	200		1.0	0.38	mg/L			10/03/20 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011		0.0010	0.00031	mg/L		10/06/20 13:44	10/08/20 16:44	1
Barium	<0.0016		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 16:44	1
Beryllium	0.0025		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 16:44	1
Boron	2.5		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 16:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 16:44	1
Calcium	81		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 16:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 16:44	1
Cobalt	0.00065	J	0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 16:44	1
Lead	0.00013	J	0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 16:44	1
Lithium	0.013		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 16:44	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 16:44	1
Selenium	0.0039	J	0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 16:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 16:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:43	10/08/20 18:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	600		10	10	mg/L			09/25/20 06:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.17				SU			09/22/20 14:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: Dup-2

Lab Sample ID: 180-111526-1

Date Collected: 09/23/20 00:00

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.32	mg/L			10/05/20 10:53	1
Fluoride	0.27		0.10	0.026	mg/L			10/05/20 10:53	1
Sulfate	3.2		1.0	0.38	mg/L			10/05/20 10:53	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		10/10/20 10:18	10/14/20 11:19	1
Barium	<0.0016		0.010	0.0016	mg/L		10/10/20 10:18	10/14/20 11:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:18	10/14/20 11:19	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:18	10/14/20 11:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:18	10/14/20 11:19	1
Calcium	12		0.50	0.13	mg/L		10/10/20 10:18	10/14/20 11:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:18	10/14/20 11:19	1
Cobalt	0.00023	J	0.0025	0.00013	mg/L		10/10/20 10:18	10/14/20 11:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:18	10/14/20 11:19	1
Lithium	0.050		0.0050	0.0034	mg/L		10/10/20 10:18	10/14/20 11:19	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		10/10/20 10:18	10/14/20 11:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:18	10/14/20 11:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:18	10/14/20 11:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:43	10/08/20 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92		10	10	mg/L			09/29/20 06:43	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: EB-2-9-24-20

Lab Sample ID: 180-111526-2

Date Collected: 09/24/20 11:50

Matrix: Water

Date Received: 09/26/20 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			10/05/20 10:21	1
Fluoride	<0.026		0.10	0.026	mg/L			10/05/20 10:21	1
Sulfate	<0.38		1.0	0.38	mg/L			10/05/20 10:21	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		10/10/20 10:18	10/14/20 11:21	1
Barium	<0.0016		0.010	0.0016	mg/L		10/10/20 10:18	10/14/20 11:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:18	10/14/20 11:21	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:18	10/14/20 11:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:18	10/14/20 11:21	1
Calcium	<0.13		0.50	0.13	mg/L		10/10/20 10:18	10/14/20 11:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:18	10/14/20 11:21	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/10/20 10:18	10/14/20 11:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:18	10/14/20 11:21	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/10/20 10:18	10/14/20 11:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:18	10/14/20 11:21	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:18	10/14/20 11:21	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:18	10/14/20 11:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*	0.00020	0.00013	mg/L		10/12/20 10:01	10/14/20 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/29/20 06:43	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: FB-2-9-24-20

Lab Sample ID: 180-111526-3

Date Collected: 09/24/20 10:00

Matrix: Water

Date Received: 09/26/20 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			10/05/20 10:37	1
Fluoride	<0.026		0.10	0.026	mg/L			10/05/20 10:37	1
Sulfate	<0.38		1.0	0.38	mg/L			10/05/20 10:37	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		10/10/20 10:22	10/17/20 14:54	1
Barium	<0.0016		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 14:54	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 14:54	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 10:34	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 14:54	1
Calcium	<0.13		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 14:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 14:54	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 14:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 14:54	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 14:54	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 14:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 14:54	1
Thallium	0.00020	J	0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 14:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*	0.00020	0.00013	mg/L		10/12/20 10:01	10/14/20 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/29/20 06:43	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-111526-4

Date Collected: 09/23/20 11:11

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.32	mg/L			10/05/20 11:09	1
Fluoride	0.050	J	0.10	0.026	mg/L			10/05/20 11:09	1
Sulfate	4.4		1.0	0.38	mg/L			10/05/20 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00067	J	0.0010	0.00031	mg/L		10/10/20 10:22	10/17/20 14:58	1
Barium	0.012		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 14:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 14:58	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 10:37	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 14:58	1
Calcium	5.9		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 14:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 14:58	1
Cobalt	0.00090	J	0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 14:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 14:58	1
Lithium	0.0056		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 14:58	1
Molybdenum	0.0027	J	0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 14:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 14:58	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 14:58	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/09/20 12:31	10/15/20 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.89				SU			09/23/20 11:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-111526-5

Date Collected: 09/23/20 12:25

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.32	mg/L			10/05/20 11:25	1
Fluoride	0.090	J	0.10	0.026	mg/L			10/05/20 11:25	1
Sulfate	1.8		1.0	0.38	mg/L			10/05/20 11:25	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		10/10/20 10:22	10/17/20 15:01	1
Barium	0.035		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:01	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 10:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:01	1
Calcium	7.7		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:01	1
Chromium	0.0018	J	0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:01	1
Cobalt	0.00062	J	0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:01	1
Lead	0.00013	J	0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:01	1
Lithium	0.0054		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:01	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:01	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/09/20 12:31	10/15/20 19:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.14				SU			09/23/20 12:25	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-111526-6

Date Collected: 09/23/20 14:35

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.32	mg/L			10/05/20 11:41	1
Fluoride	0.63		0.10	0.026	mg/L			10/05/20 11:41	1
Sulfate	21		1.0	0.38	mg/L			10/05/20 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00061	J	0.0010	0.00031	mg/L		10/10/20 10:22	10/17/20 15:05	1
Barium	0.027		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:05	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 10:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:05	1
Calcium	32		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:05	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:05	1
Lithium	0.0071		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:05	1
Molybdenum	0.0031	J	0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/09/20 12:31	10/15/20 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.35				SU			09/23/20 14:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-111526-7

Date Collected: 09/23/20 13:30

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58		1.0	0.32	mg/L			10/05/20 11:56	1
Fluoride	0.049	J	0.10	0.026	mg/L			10/05/20 11:56	1
Sulfate	85		1.0	0.38	mg/L			10/05/20 11:56	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		10/10/20 10:22	10/17/20 15:08	1
Barium	0.037		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:08	1
Boron	1.5		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 10:48	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:08	1
Calcium	43		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:08	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:08	1
Lithium	0.0059		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:08	1
Selenium	0.0028	J	0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:08	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/09/20 12:31	10/15/20 19:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.05				SU			09/23/20 13:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-111526-8

Date Collected: 09/23/20 15:50

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.32	mg/L			10/05/20 12:12	1
Fluoride	0.82		0.10	0.026	mg/L			10/05/20 12:12	1
Sulfate	54		1.0	0.38	mg/L			10/05/20 12:12	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		10/10/20 10:22	10/17/20 15:12	1
Barium	<0.0016		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:12	1
Beryllium	0.00034	J	0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:12	1
Boron	0.68		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 10:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:12	1
Calcium	10		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:12	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:12	1
Lithium	0.033		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:12	1
Molybdenum	0.0027	J	0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:12	1
Selenium	0.0029	J	0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/09/20 12:31	10/15/20 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.80				SU			09/23/20 15:50	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-111526-9

Date Collected: 09/24/20 11:05

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.32	mg/L			10/05/20 13:00	1
Fluoride	<0.026		0.10	0.026	mg/L			10/05/20 13:00	1
Sulfate	0.63	J	1.0	0.38	mg/L			10/05/20 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/10/20 10:22	10/17/20 15:16	1
Barium	0.038		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:16	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:16	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 10:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:16	1
Calcium	1.4		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:16	1
Cobalt	0.00032	J	0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:16	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:16	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*	0.00020	0.00013	mg/L		10/12/20 10:01	10/14/20 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	21		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.29				SU			09/24/20 11:05	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-111526-10

Date Collected: 09/24/20 09:55

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.32	mg/L			10/05/20 14:35	1
Fluoride	0.028	J	0.10	0.026	mg/L			10/05/20 14:35	1
Sulfate	1.2		1.0	0.38	mg/L			10/05/20 14:35	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		10/10/20 10:22	10/17/20 15:19	1
Barium	0.034		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:19	1
Beryllium	0.00024	J	0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:19	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 11:06	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:19	1
Calcium	0.99		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:19	1
Cobalt	0.0035		0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:19	1
Lead	0.00018	J	0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:19	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*	0.00020	0.00013	mg/L		10/12/20 10:01	10/14/20 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.16				SU			09/24/20 09:55	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-111526-11

Date Collected: 09/23/20 15:00

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		1.0	0.32	mg/L			10/05/20 14:51	1
Fluoride	0.25		0.10	0.026	mg/L			10/05/20 14:51	1
Sulfate	3.0		1.0	0.38	mg/L			10/05/20 14:51	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		10/10/20 10:22	10/17/20 15:30	1
Barium	<0.0016		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:30	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 11:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:30	1
Calcium	13		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:30	1
Cobalt	0.00024	J	0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:30	1
Lithium	0.056		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:30	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:30	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:30	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/09/20 12:31	10/15/20 20:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.59				SU			09/23/20 15:00	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-111526-12

Date Collected: 09/24/20 10:20

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0		1.0	0.32	mg/L			10/05/20 15:06	1
Fluoride	0.18		0.10	0.026	mg/L			10/05/20 15:06	1
Sulfate	2.7		1.0	0.38	mg/L			10/05/20 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00051	J	0.0010	0.00031	mg/L		10/10/20 10:22	10/17/20 15:33	1
Barium	0.061		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:33	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 11:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:33	1
Calcium	5.2		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:33	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:33	1
Lead	0.00037	J	0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:33	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:33	1
Molybdenum	0.0017	J	0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:33	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*	0.00020	0.00013	mg/L		10/12/20 10:01	10/14/20 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.50				SU			09/24/20 10:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-111526-13

Date Collected: 09/23/20 13:55

Matrix: Water

Date Received: 09/26/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.32	mg/L			10/05/20 15:22	1
Fluoride	0.064	J	0.10	0.026	mg/L			10/05/20 15:22	1
Sulfate	12		1.0	0.38	mg/L			10/05/20 15:22	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		10/10/20 10:22	10/17/20 15:37	1
Barium	0.016		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 15:37	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 15:37	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 11:16	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 15:37	1
Calcium	13		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 15:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 15:37	1
Cobalt	0.00039	J	0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 15:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 15:37	1
Lithium	0.0070		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 15:37	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 15:37	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 15:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 15:37	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/09/20 12:31	10/15/20 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	90		10	10	mg/L			09/29/20 06:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			09/23/20 13:55	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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

Lab Sample ID: MB 180-332056/41
Matrix: Water
Analysis Batch: 332056

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			10/02/20 16:51	1
Fluoride	<0.026		0.10	0.026	mg/L			10/02/20 16:51	1
Sulfate	<0.38		1.0	0.38	mg/L			10/02/20 16:51	1

Lab Sample ID: LCS 180-332056/40
Matrix: Water
Analysis Batch: 332056

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	50.7		mg/L		101	90 - 110
Fluoride	2.50	2.47		mg/L		99	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: 180-111399-1 MS
Matrix: Water
Analysis Batch: 332056

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.6		50.0	52.6		mg/L		102	90 - 110
Fluoride	<0.026		2.50	2.54		mg/L		102	90 - 110
Sulfate	0.90	J	50.0	52.0		mg/L		102	90 - 110

Lab Sample ID: 180-111399-1 MSD
Matrix: Water
Analysis Batch: 332056

Client Sample ID: Dup-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	1.6		50.0	50.8		mg/L		98	90 - 110	4	20
Fluoride	<0.026		2.50	2.47		mg/L		99	90 - 110	3	20
Sulfate	0.90	J	50.0	50.7		mg/L		100	90 - 110	3	20

Lab Sample ID: 180-111399-6 MS
Matrix: Water
Analysis Batch: 332056

Client Sample ID: WGWA-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		50.0	47.5		mg/L		92	90 - 110
Fluoride	<0.026		2.50	2.27		mg/L		91	90 - 110
Sulfate	0.77	J	50.0	47.2		mg/L		93	90 - 110

Lab Sample ID: 180-111399-6 MSD
Matrix: Water
Analysis Batch: 332056

Client Sample ID: WGWA-3
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		50.0	48.2		mg/L		93	90 - 110	1	20
Fluoride	<0.026		2.50	2.30		mg/L		92	90 - 110	1	20
Sulfate	0.77	J	50.0	47.9		mg/L		94	90 - 110	2	20

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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

Lab Sample ID: MB 180-332194/50
Matrix: Water
Analysis Batch: 332194

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.38		1.0	0.38	mg/L			10/03/20 18:11	1

Lab Sample ID: LCS 180-332194/49
Matrix: Water
Analysis Batch: 332194

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.9		mg/L		98	90 - 110

Lab Sample ID: 180-111399-12 MS
Matrix: Water
Analysis Batch: 332194

Client Sample ID: WGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	200		250	438		mg/L		95	90 - 110

Lab Sample ID: 180-111399-12 MSD
Matrix: Water
Analysis Batch: 332194

Client Sample ID: WGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	200		250	446		mg/L		98	90 - 110	2	20

Lab Sample ID: MB 180-332252/6
Matrix: Water
Analysis Batch: 332252

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			10/05/20 07:05	1
Fluoride	<0.026		0.10	0.026	mg/L			10/05/20 07:05	1
Sulfate	<0.38		1.0	0.38	mg/L			10/05/20 07:05	1

Lab Sample ID: LCS 180-332252/5
Matrix: Water
Analysis Batch: 332252

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	48.9		mg/L		98	90 - 110
Fluoride	2.50	2.47		mg/L		99	90 - 110
Sulfate	50.0	50.2		mg/L		100	90 - 110

Lab Sample ID: 180-111526-9 MS
Matrix: Water
Analysis Batch: 332252

Client Sample ID: WGWC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.6		50.0	47.8		mg/L		93	90 - 110
Fluoride	<0.026		2.50	2.30		mg/L		92	90 - 110
Sulfate	0.63	J	50.0	48.0		mg/L		95	90 - 110

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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

Lab Sample ID: 180-111526-9 MSD
Matrix: Water
Analysis Batch: 332252

Client Sample ID: WGWC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.6		50.0	49.1		mg/L		95	90 - 110	3	20
Fluoride	<0.026		2.50	2.37		mg/L		95	90 - 110	3	20
Sulfate	0.63	J	50.0	49.4		mg/L		97	90 - 110	3	20

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

Lab Sample ID: MB 180-332470/1-A
Matrix: Water
Analysis Batch: 332836

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 332470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/06/20 13:44	10/08/20 15:50	1
Barium	<0.0016		0.010	0.0016	mg/L		10/06/20 13:44	10/08/20 15:50	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/06/20 13:44	10/08/20 15:50	1
Boron	<0.039		0.080	0.039	mg/L		10/06/20 13:44	10/08/20 15:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/06/20 13:44	10/08/20 15:50	1
Calcium	<0.13		0.50	0.13	mg/L		10/06/20 13:44	10/08/20 15:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/06/20 13:44	10/08/20 15:50	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/06/20 13:44	10/08/20 15:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/06/20 13:44	10/08/20 15:50	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/06/20 13:44	10/08/20 15:50	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/06/20 13:44	10/08/20 15:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/06/20 13:44	10/08/20 15:50	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/06/20 13:44	10/08/20 15:50	1

Lab Sample ID: LCS 180-332470/2-A
Matrix: Water
Analysis Batch: 332836

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 332470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.943		mg/L		94	80 - 120
Barium	1.00	1.07		mg/L		107	80 - 120
Beryllium	0.500	0.522		mg/L		104	80 - 120
Boron	1.25	1.26		mg/L		100	80 - 120
Cadmium	0.500	0.495		mg/L		99	80 - 120
Calcium	25.0	26.8		mg/L		107	80 - 120
Chromium	0.500	0.490		mg/L		98	80 - 120
Cobalt	0.500	0.470		mg/L		94	80 - 120
Lead	0.500	0.487		mg/L		97	80 - 120
Lithium	0.500	0.458		mg/L		92	80 - 120
Molybdenum	0.500	0.500		mg/L		100	80 - 120
Selenium	1.00	0.976		mg/L		98	80 - 120
Thallium	1.00	0.951		mg/L		95	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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

Lab Sample ID: 180-111399-1 MS
Matrix: Water
Analysis Batch: 332836

Client Sample ID: Dup-1
Prep Type: Total Recoverable
Prep Batch: 332470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec. Limits
Arsenic	<0.00031		1.00	0.924		mg/L		92	75 - 125	
Barium	0.015		1.00	1.06		mg/L		105	75 - 125	
Beryllium	0.00022	J	0.500	0.536		mg/L		107	75 - 125	
Boron	<0.039		1.25	1.32		mg/L		106	75 - 125	
Cadmium	<0.00022		0.500	0.494		mg/L		99	75 - 125	
Calcium	1.8		25.0	27.9		mg/L		104	75 - 125	
Chromium	<0.0015		0.500	0.481		mg/L		96	75 - 125	
Cobalt	<0.00013		0.500	0.466		mg/L		93	75 - 125	
Lead	0.00013	J	0.500	0.479		mg/L		96	75 - 125	
Lithium	<0.0034		0.500	0.484		mg/L		97	75 - 125	
Molybdenum	<0.00061		0.500	0.495		mg/L		99	75 - 125	
Selenium	<0.0015		1.00	1.01		mg/L		101	75 - 125	
Thallium	0.00026	J	1.00	0.933		mg/L		93	75 - 125	

Lab Sample ID: 180-111399-1 MSD
Matrix: Water
Analysis Batch: 332836

Client Sample ID: Dup-1
Prep Type: Total Recoverable
Prep Batch: 332470

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Arsenic	<0.00031		1.00	0.912		mg/L		91	75 - 125	1	20
Barium	0.015		1.00	1.08		mg/L		107	75 - 125	2	20
Beryllium	0.00022	J	0.500	0.525		mg/L		105	75 - 125	2	20
Boron	<0.039		1.25	1.29		mg/L		103	75 - 125	3	20
Cadmium	<0.00022		0.500	0.502		mg/L		100	75 - 125	2	20
Calcium	1.8		25.0	28.2		mg/L		106	75 - 125	1	20
Chromium	<0.0015		0.500	0.489		mg/L		98	75 - 125	1	20
Cobalt	<0.00013		0.500	0.468		mg/L		94	75 - 125	0	20
Lead	0.00013	J	0.500	0.484		mg/L		97	75 - 125	1	20
Lithium	<0.0034		0.500	0.467		mg/L		93	75 - 125	3	20
Molybdenum	<0.00061		0.500	0.493		mg/L		99	75 - 125	0	20
Selenium	<0.0015		1.00	0.977		mg/L		98	75 - 125	3	20
Thallium	0.00026	J	1.00	0.956		mg/L		96	75 - 125	3	20

Lab Sample ID: MB 180-332954/1-A
Matrix: Water
Analysis Batch: 333527

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 332954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/10/20 10:18	10/14/20 09:47	1
Barium	<0.0016		0.010	0.0016	mg/L		10/10/20 10:18	10/14/20 09:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:18	10/14/20 09:47	1
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:18	10/14/20 09:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:18	10/14/20 09:47	1
Calcium	<0.13		0.50	0.13	mg/L		10/10/20 10:18	10/14/20 09:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:18	10/14/20 09:47	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/10/20 10:18	10/14/20 09:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:18	10/14/20 09:47	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/10/20 10:18	10/14/20 09:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:18	10/14/20 09:47	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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

Lab Sample ID: MB 180-332954/1-A
Matrix: Water
Analysis Batch: 333527

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 332954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:18	10/14/20 09:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:18	10/14/20 09:47	1

Lab Sample ID: LCS 180-332954/2-A
Matrix: Water
Analysis Batch: 333527

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 332954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.00		mg/L		100	80 - 120
Barium	1.00	1.07		mg/L		107	80 - 120
Beryllium	0.500	0.520		mg/L		104	80 - 120
Boron	1.25	1.23		mg/L		98	80 - 120
Cadmium	0.500	0.482		mg/L		96	80 - 120
Calcium	25.0	28.1		mg/L		112	80 - 120
Chromium	0.500	0.483		mg/L		97	80 - 120
Cobalt	0.500	0.504		mg/L		101	80 - 120
Lead	0.500	0.483		mg/L		97	80 - 120
Lithium	0.500	0.480		mg/L		96	80 - 120
Molybdenum	0.500	0.542		mg/L		108	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	0.954		mg/L		95	80 - 120

Lab Sample ID: MB 180-332956/1-A
Matrix: Water
Analysis Batch: 334010

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 332956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00031		0.0010	0.00031	mg/L		10/10/20 10:22	10/17/20 14:33	1
Barium	<0.0016		0.010	0.0016	mg/L		10/10/20 10:22	10/17/20 14:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		10/10/20 10:22	10/17/20 14:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/10/20 10:22	10/17/20 14:33	1
Calcium	<0.13		0.50	0.13	mg/L		10/10/20 10:22	10/17/20 14:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/10/20 10:22	10/17/20 14:33	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		10/10/20 10:22	10/17/20 14:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		10/10/20 10:22	10/17/20 14:33	1
Lithium	<0.0034		0.0050	0.0034	mg/L		10/10/20 10:22	10/17/20 14:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/10/20 10:22	10/17/20 14:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		10/10/20 10:22	10/17/20 14:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		10/10/20 10:22	10/17/20 14:33	1

Lab Sample ID: MB 180-332956/1-A
Matrix: Water
Analysis Batch: 334271

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 332956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		10/10/20 10:22	10/21/20 10:23	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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

Lab Sample ID: LCS 180-332956/2-A
Matrix: Water
Analysis Batch: 334010

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 332956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1.00	0.961		mg/L		96	80 - 120
Barium	1.00	0.992		mg/L		99	80 - 120
Beryllium	0.500	0.465		mg/L		93	80 - 120
Cadmium	0.500	0.467		mg/L		93	80 - 120
Calcium	25.0	27.1		mg/L		108	80 - 120
Chromium	0.500	0.469		mg/L		94	80 - 120
Cobalt	0.500	0.476		mg/L		95	80 - 120
Lead	0.500	0.479		mg/L		96	80 - 120
Lithium	0.500	0.468		mg/L		94	80 - 120
Molybdenum	0.500	0.487		mg/L		97	80 - 120
Selenium	1.00	0.965		mg/L		97	80 - 120
Thallium	1.00	0.970		mg/L		97	80 - 120

Lab Sample ID: LCS 180-332956/2-A
Matrix: Water
Analysis Batch: 334271

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 332956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.31		mg/L		105	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-332349/1-A
Matrix: Water
Analysis Batch: 332694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 332349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/05/20 18:35	10/07/20 16:40	1

Lab Sample ID: LCS 180-332349/2-A
Matrix: Water
Analysis Batch: 332694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 332349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00250		mg/L		100	80 - 120

Lab Sample ID: MB 180-332506/1-A
Matrix: Water
Analysis Batch: 332827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 332506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:42	10/08/20 18:25	1

Lab Sample ID: LCS 180-332506/2-A
Matrix: Water
Analysis Batch: 332827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 332506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00240		mg/L		96	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 180-332507/1-A
Matrix: Water
Analysis Batch: 332827

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 332507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/07/20 18:43	10/08/20 18:54	1

Lab Sample ID: LCS 180-332507/2-A
Matrix: Water
Analysis Batch: 332827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 332507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00225		mg/L		90	80 - 120

Lab Sample ID: MB 180-332871/1-A
Matrix: Water
Analysis Batch: 333677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 332871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/09/20 12:31	10/15/20 19:54	1

Lab Sample ID: LCS 180-332871/2-A
Matrix: Water
Analysis Batch: 333677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 332871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00261		mg/L		104	80 - 120

Lab Sample ID: MB 180-332971/1-A
Matrix: Water
Analysis Batch: 333510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 332971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/12/20 10:01	10/14/20 15:57	1

Lab Sample ID: LCS 180-332971/2-A
Matrix: Water
Analysis Batch: 333510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 332971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00306	*	mg/L		122	80 - 120

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

Lab Sample ID: MB 180-331211/2
Matrix: Water
Analysis Batch: 331211

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/25/20 06:48	1

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QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

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

Lab Sample ID: LCS 180-331211/1
Matrix: Water
Analysis Batch: 331211

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	632	632		mg/L		100	80 - 120

Lab Sample ID: 180-111399-8 DU
Matrix: Water
Analysis Batch: 331211

Client Sample ID: WGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		179		mg/L		7	10

Lab Sample ID: MB 180-331565/2
Matrix: Water
Analysis Batch: 331565

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/29/20 06:43	1

Lab Sample ID: LCS 180-331565/1
Matrix: Water
Analysis Batch: 331565

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	632	612		mg/L		97	80 - 120

Lab Sample ID: 180-111526-6 DU
Matrix: Water
Analysis Batch: 331565

Client Sample ID: WGWC-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	150		141		mg/L		5	10

Lab Sample ID: 180-111526-7 DU
Matrix: Water
Analysis Batch: 331565

Client Sample ID: WGWC-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	250		250		mg/L		1	10

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

HPLC/IC

Analysis Batch: 332056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-1	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-111399-2	EB-1-9-22-20	Total/NA	Water	EPA 300.0 R2.1	
180-111399-3	FB-1-9-22-20	Total/NA	Water	EPA 300.0 R2.1	
180-111399-4	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-111399-5	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-111399-6	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-111399-7	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-111399-8	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-111399-9	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	
180-111399-10	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	
180-111399-11	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-111399-12	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
MB 180-332056/41	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-332056/40	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-111399-1 MS	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-111399-1 MSD	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-111399-6 MS	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-111399-6 MSD	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 332194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-12	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
MB 180-332194/50	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-332194/49	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-111399-12 MS	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-111399-12 MSD	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 332252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-1	Dup-2	Total/NA	Water	EPA 300.0 R2.1	
180-111526-2	EB-2-9-24-20	Total/NA	Water	EPA 300.0 R2.1	
180-111526-3	FB-2-9-24-20	Total/NA	Water	EPA 300.0 R2.1	
180-111526-4	WGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-111526-5	WGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-111526-6	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-111526-7	WGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-111526-8	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-111526-9	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-111526-10	WGWC-14A	Total/NA	Water	EPA 300.0 R2.1	
180-111526-11	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-111526-12	WGWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-111526-13	WGWC-12	Total/NA	Water	EPA 300.0 R2.1	
MB 180-332252/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-332252/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-111526-9 MS	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-111526-9 MSD	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Metals

Prep Batch: 332349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-1	Dup-1	Total/NA	Water	7470A	
180-111399-4	WGWA-2	Total/NA	Water	7470A	
180-111399-5	WGWA-4	Total/NA	Water	7470A	
180-111399-6	WGWA-3	Total/NA	Water	7470A	
MB 180-332349/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-332349/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 332470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-1	Dup-1	Total Recoverable	Water	3005A	
180-111399-2	EB-1-9-22-20	Total Recoverable	Water	3005A	
180-111399-3	FB-1-9-22-20	Total Recoverable	Water	3005A	
180-111399-4	WGWA-2	Total Recoverable	Water	3005A	
180-111399-5	WGWA-4	Total Recoverable	Water	3005A	
180-111399-6	WGWA-3	Total Recoverable	Water	3005A	
180-111399-7	WGWA-1	Total Recoverable	Water	3005A	
180-111399-8	WGWA-5	Total Recoverable	Water	3005A	
180-111399-9	WGWA-6	Total Recoverable	Water	3005A	
180-111399-10	WGWA-7	Total Recoverable	Water	3005A	
180-111399-11	WGWA-18	Total Recoverable	Water	3005A	
180-111399-12	WGWC-8	Total Recoverable	Water	3005A	
MB 180-332470/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-332470/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-111399-1 MS	Dup-1	Total Recoverable	Water	3005A	
180-111399-1 MSD	Dup-1	Total Recoverable	Water	3005A	

Prep Batch: 332506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-2	EB-1-9-22-20	Total/NA	Water	7470A	
180-111399-3	FB-1-9-22-20	Total/NA	Water	7470A	
180-111399-7	WGWA-1	Total/NA	Water	7470A	
180-111399-8	WGWA-5	Total/NA	Water	7470A	
180-111399-9	WGWA-6	Total/NA	Water	7470A	
180-111399-10	WGWA-7	Total/NA	Water	7470A	
180-111399-11	WGWA-18	Total/NA	Water	7470A	
MB 180-332506/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-332506/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 332507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-12	WGWC-8	Total/NA	Water	7470A	
180-111526-1	Dup-2	Total/NA	Water	7470A	
MB 180-332507/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-332507/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 332694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-1	Dup-1	Total/NA	Water	EPA 7470A	332349
180-111399-4	WGWA-2	Total/NA	Water	EPA 7470A	332349
180-111399-5	WGWA-4	Total/NA	Water	EPA 7470A	332349
180-111399-6	WGWA-3	Total/NA	Water	EPA 7470A	332349

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Metals (Continued)

Analysis Batch: 332694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-332349/1-A	Method Blank	Total/NA	Water	EPA 7470A	332349
LCS 180-332349/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	332349

Analysis Batch: 332827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-2	EB-1-9-22-20	Total/NA	Water	EPA 7470A	332506
180-111399-3	FB-1-9-22-20	Total/NA	Water	EPA 7470A	332506
180-111399-7	WGWA-1	Total/NA	Water	EPA 7470A	332506
180-111399-8	WGWA-5	Total/NA	Water	EPA 7470A	332506
180-111399-9	WGWA-6	Total/NA	Water	EPA 7470A	332506
180-111399-10	WGWA-7	Total/NA	Water	EPA 7470A	332506
180-111399-11	WGWA-18	Total/NA	Water	EPA 7470A	332506
180-111399-12	WGWC-8	Total/NA	Water	EPA 7470A	332507
180-111526-1	Dup-2	Total/NA	Water	EPA 7470A	332507
MB 180-332506/1-A	Method Blank	Total/NA	Water	EPA 7470A	332506
MB 180-332507/1-A	Method Blank	Total/NA	Water	EPA 7470A	332507
LCS 180-332506/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	332506
LCS 180-332507/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	332507

Analysis Batch: 332836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-1	Dup-1	Total Recoverable	Water	EPA 6020B	332470
180-111399-2	EB-1-9-22-20	Total Recoverable	Water	EPA 6020B	332470
180-111399-3	FB-1-9-22-20	Total Recoverable	Water	EPA 6020B	332470
180-111399-4	WGWA-2	Total Recoverable	Water	EPA 6020B	332470
180-111399-5	WGWA-4	Total Recoverable	Water	EPA 6020B	332470
180-111399-6	WGWA-3	Total Recoverable	Water	EPA 6020B	332470
180-111399-7	WGWA-1	Total Recoverable	Water	EPA 6020B	332470
180-111399-8	WGWA-5	Total Recoverable	Water	EPA 6020B	332470
180-111399-9	WGWA-6	Total Recoverable	Water	EPA 6020B	332470
180-111399-10	WGWA-7	Total Recoverable	Water	EPA 6020B	332470
180-111399-11	WGWA-18	Total Recoverable	Water	EPA 6020B	332470
180-111399-12	WGWC-8	Total Recoverable	Water	EPA 6020B	332470
MB 180-332470/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	332470
LCS 180-332470/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	332470
180-111399-1 MS	Dup-1	Total Recoverable	Water	EPA 6020B	332470
180-111399-1 MSD	Dup-1	Total Recoverable	Water	EPA 6020B	332470

Prep Batch: 332871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-4	WGWC-17	Total/NA	Water	7470A	
180-111526-5	WGWC-10	Total/NA	Water	7470A	
180-111526-6	WGWC-15	Total/NA	Water	7470A	
180-111526-7	WGWC-16	Total/NA	Water	7470A	
180-111526-8	WGWC-9	Total/NA	Water	7470A	
180-111526-11	WGWC-19	Total/NA	Water	7470A	
180-111526-13	WGWC-12	Total/NA	Water	7470A	
MB 180-332871/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-332871/2-A	Lab Control Sample	Total/NA	Water	7470A	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Metals

Prep Batch: 332954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-1	Dup-2	Total Recoverable	Water	3005A	
180-111526-2	EB-2-9-24-20	Total Recoverable	Water	3005A	
MB 180-332954/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-332954/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 332956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-3	FB-2-9-24-20	Total Recoverable	Water	3005A	
180-111526-4	WGWC-17	Total Recoverable	Water	3005A	
180-111526-5	WGWC-10	Total Recoverable	Water	3005A	
180-111526-6	WGWC-15	Total Recoverable	Water	3005A	
180-111526-7	WGWC-16	Total Recoverable	Water	3005A	
180-111526-8	WGWC-9	Total Recoverable	Water	3005A	
180-111526-9	WGWC-13	Total Recoverable	Water	3005A	
180-111526-10	WGWC-14A	Total Recoverable	Water	3005A	
180-111526-11	WGWC-19	Total Recoverable	Water	3005A	
180-111526-12	WGWC-11	Total Recoverable	Water	3005A	
180-111526-13	WGWC-12	Total Recoverable	Water	3005A	
MB 180-332956/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-332956/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 332971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-2	EB-2-9-24-20	Total/NA	Water	7470A	
180-111526-3	FB-2-9-24-20	Total/NA	Water	7470A	
180-111526-9	WGWC-13	Total/NA	Water	7470A	
180-111526-10	WGWC-14A	Total/NA	Water	7470A	
180-111526-12	WGWC-11	Total/NA	Water	7470A	
MB 180-332971/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-332971/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 333510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-2	EB-2-9-24-20	Total/NA	Water	EPA 7470A	332971
180-111526-3	FB-2-9-24-20	Total/NA	Water	EPA 7470A	332971
180-111526-9	WGWC-13	Total/NA	Water	EPA 7470A	332971
180-111526-10	WGWC-14A	Total/NA	Water	EPA 7470A	332971
180-111526-12	WGWC-11	Total/NA	Water	EPA 7470A	332971
MB 180-332971/1-A	Method Blank	Total/NA	Water	EPA 7470A	332971
LCS 180-332971/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	332971

Analysis Batch: 333527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-1	Dup-2	Total Recoverable	Water	EPA 6020B	332954
180-111526-2	EB-2-9-24-20	Total Recoverable	Water	EPA 6020B	332954
MB 180-332954/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	332954
LCS 180-332954/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	332954

Analysis Batch: 333677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-4	WGWC-17	Total/NA	Water	EPA 7470A	332871

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Metals (Continued)

Analysis Batch: 333677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-5	WGWC-10	Total/NA	Water	EPA 7470A	332871
180-111526-6	WGWC-15	Total/NA	Water	EPA 7470A	332871
180-111526-7	WGWC-16	Total/NA	Water	EPA 7470A	332871
180-111526-8	WGWC-9	Total/NA	Water	EPA 7470A	332871
180-111526-11	WGWC-19	Total/NA	Water	EPA 7470A	332871
180-111526-13	WGWC-12	Total/NA	Water	EPA 7470A	332871
MB 180-332871/1-A	Method Blank	Total/NA	Water	EPA 7470A	332871
LCS 180-332871/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	332871

Analysis Batch: 334010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-3	FB-2-9-24-20	Total Recoverable	Water	EPA 6020B	332956
180-111526-4	WGWC-17	Total Recoverable	Water	EPA 6020B	332956
180-111526-5	WGWC-10	Total Recoverable	Water	EPA 6020B	332956
180-111526-6	WGWC-15	Total Recoverable	Water	EPA 6020B	332956
180-111526-7	WGWC-16	Total Recoverable	Water	EPA 6020B	332956
180-111526-8	WGWC-9	Total Recoverable	Water	EPA 6020B	332956
180-111526-9	WGWC-13	Total Recoverable	Water	EPA 6020B	332956
180-111526-10	WGWC-14A	Total Recoverable	Water	EPA 6020B	332956
180-111526-11	WGWC-19	Total Recoverable	Water	EPA 6020B	332956
180-111526-12	WGWC-11	Total Recoverable	Water	EPA 6020B	332956
180-111526-13	WGWC-12	Total Recoverable	Water	EPA 6020B	332956
MB 180-332956/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	332956
LCS 180-332956/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	332956

Analysis Batch: 334271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-3	FB-2-9-24-20	Total Recoverable	Water	EPA 6020B	332956
180-111526-4	WGWC-17	Total Recoverable	Water	EPA 6020B	332956
180-111526-5	WGWC-10	Total Recoverable	Water	EPA 6020B	332956
180-111526-6	WGWC-15	Total Recoverable	Water	EPA 6020B	332956
180-111526-7	WGWC-16	Total Recoverable	Water	EPA 6020B	332956
180-111526-8	WGWC-9	Total Recoverable	Water	EPA 6020B	332956
180-111526-9	WGWC-13	Total Recoverable	Water	EPA 6020B	332956
180-111526-10	WGWC-14A	Total Recoverable	Water	EPA 6020B	332956
180-111526-11	WGWC-19	Total Recoverable	Water	EPA 6020B	332956
180-111526-12	WGWC-11	Total Recoverable	Water	EPA 6020B	332956
180-111526-13	WGWC-12	Total Recoverable	Water	EPA 6020B	332956
MB 180-332956/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	332956
LCS 180-332956/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	332956

General Chemistry

Analysis Batch: 331211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-1	Dup-1	Total/NA	Water	SM 2540C	
180-111399-2	EB-1-9-22-20	Total/NA	Water	SM 2540C	
180-111399-3	FB-1-9-22-20	Total/NA	Water	SM 2540C	
180-111399-4	WGWA-2	Total/NA	Water	SM 2540C	
180-111399-5	WGWA-4	Total/NA	Water	SM 2540C	
180-111399-6	WGWA-3	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

General Chemistry (Continued)

Analysis Batch: 331211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-7	WGWA-1	Total/NA	Water	SM 2540C	
180-111399-8	WGWA-5	Total/NA	Water	SM 2540C	
180-111399-9	WGWA-6	Total/NA	Water	SM 2540C	
180-111399-10	WGWA-7	Total/NA	Water	SM 2540C	
180-111399-11	WGWA-18	Total/NA	Water	SM 2540C	
180-111399-12	WGWC-8	Total/NA	Water	SM 2540C	
MB 180-331211/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-331211/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-111399-8 DU	WGWA-5	Total/NA	Water	SM 2540C	

Analysis Batch: 331565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-1	Dup-2	Total/NA	Water	SM 2540C	
180-111526-2	EB-2-9-24-20	Total/NA	Water	SM 2540C	
180-111526-3	FB-2-9-24-20	Total/NA	Water	SM 2540C	
180-111526-4	WGWC-17	Total/NA	Water	SM 2540C	
180-111526-5	WGWC-10	Total/NA	Water	SM 2540C	
180-111526-6	WGWC-15	Total/NA	Water	SM 2540C	
180-111526-7	WGWC-16	Total/NA	Water	SM 2540C	
180-111526-8	WGWC-9	Total/NA	Water	SM 2540C	
180-111526-9	WGWC-13	Total/NA	Water	SM 2540C	
180-111526-10	WGWC-14A	Total/NA	Water	SM 2540C	
180-111526-11	WGWC-19	Total/NA	Water	SM 2540C	
180-111526-12	WGWC-11	Total/NA	Water	SM 2540C	
180-111526-13	WGWC-12	Total/NA	Water	SM 2540C	
MB 180-331565/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-331565/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-111526-6 DU	WGWC-15	Total/NA	Water	SM 2540C	
180-111526-7 DU	WGWC-16	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 333008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-4	WGWC-17	Total/NA	Water	Field Sampling	
180-111526-5	WGWC-10	Total/NA	Water	Field Sampling	
180-111526-6	WGWC-15	Total/NA	Water	Field Sampling	
180-111526-7	WGWC-16	Total/NA	Water	Field Sampling	
180-111526-8	WGWC-9	Total/NA	Water	Field Sampling	
180-111526-9	WGWC-13	Total/NA	Water	Field Sampling	
180-111526-10	WGWC-14A	Total/NA	Water	Field Sampling	
180-111526-11	WGWC-19	Total/NA	Water	Field Sampling	
180-111526-12	WGWC-11	Total/NA	Water	Field Sampling	
180-111526-13	WGWC-12	Total/NA	Water	Field Sampling	

Analysis Batch: 333009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-4	WGWA-2	Total/NA	Water	Field Sampling	
180-111399-5	WGWA-4	Total/NA	Water	Field Sampling	
180-111399-6	WGWA-3	Total/NA	Water	Field Sampling	
180-111399-7	WGWA-1	Total/NA	Water	Field Sampling	

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 333009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-8	WGWA-5	Total/NA	Water	Field Sampling	
180-111399-9	WGWA-6	Total/NA	Water	Field Sampling	
180-111399-10	WGWA-7	Total/NA	Water	Field Sampling	
180-111399-11	WGWA-18	Total/NA	Water	Field Sampling	
180-111399-12	WGWC-8	Total/NA	Water	Field Sampling	

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

Client Information
 Address: 241 Ralph McGill Blvd SE
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7116 (Tel)
 Email: SCS Contacts
 Project Name: CCR - Plant Wansley Ash Pond
 Site:
 PO #: SCS10382606
 WC #:
 Project #: 18019922
 SSOW#:
 Sampler: O. FURQUEA, J. BEDSFORD
 Lab PM: Brown, Shali
 Phone: (770) 594-5998
 E-Mail: shali.brown@eurofinset.com

Analysis Requested
 Carrier Tracking No(s):
 Page: 1
 Job #: 1
 COC No:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater)	Preservation Code: (BT-Tissue, A=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App. III Metals (G, Ca)	Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)	As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl (SW-846 9315/9320)	Detected App IV Metals (EPA 6020/470)	Total Number of cc	Special Instructions/Note:
DUP-1	9-21-20	1120	G	Water		W	W	W	W	W	W	3	pH= NA
EB-1-9-22-20	9-22-20	1120	G	Water		W	W	W	W	W	W	3	pH= NA
FB-1-9-22-20	9-22-20	1410	G	Water		W	W	W	W	W	W	3	pH= NA
WGWA-2	9-21-20	1210	G	Water		W	W	W	W	W	W	3	pH= 6.05
WGWA-4	9-21-20	1400	G	Water		W	W	W	W	W	W	3	pH= 6.81
WGWA-3	9-21-20	1501	G	Water		W	W	W	W	W	W	3	pH= 5.35
WGWA-1	9-22-20	1057	G	Water		W	W	W	W	W	W	3	pH= 5.09
WGWA-5	9-22-20	1220	G	Water		W	W	W	W	W	W	3	pH= 6.78
WGWA-6	9-22-20	1030	G	Water		W	W	W	W	W	W	3	pH= 7.40
WGWA-7	9-22-20	1420	G	Water		W	W	W	W	W	W	3	pH= 5.36
WGWA-18	9-22-20	1315	G	Water		W	W	W	W	W	W	3	pH= 7.18

Preservation Codes:
 A - HCL
 B - NaOH
 C - 7%
 M - Hexane
 N -
 S
 X3
 seahydrate

Other:
 180-111399 Chain of Custody

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Unknown Radiological
 Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: ACC Date/Time: 9-23-20 / 1315 Company: ACC
 Relinquished by: [Signature] Date/Time: 9/23/20 Company: ETR
 Relinquished by: [Signature] Date/Time: 9-24-20 Company: ETR


Custody Seals Intact: Custody Seal No.: _____
 Yes No

Cooler Temperature(s) °C and Other Remarks: 9.15

ALANTA-772

Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: Project Name: CCR - Plant Wansley Ash Pond Site:		Sampler: O. Fouquet Lab PM: Brown, Shali Phone: (770) 594-5948 E-Mail: shali.brown@eurofinset.com		Carrier Tracking No(s): Page: 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18019922 SSOW#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> App. III Metals (B,Ca) <input checked="" type="checkbox"/> Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C) <input checked="" type="checkbox"/> Detected App IV Metals (EPA 6020/7470): As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl <input checked="" type="checkbox"/> Radium 226 & 228 (SW-846 9315/9320) <input checked="" type="checkbox"/>			
Sample Identification WGWC-8 Sample Date: 9-22-10 Sample Time: 1430 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water Preservation Code:		Total Number of containers: 3 pH= 5.17 Special Instructions/Note:			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Date/Time: 9-23-20 / 13:15 Company: ACC		Received by: [Signature] Date/Time: 9/23/20 Company: EPA			
Relinquished by: [Signature] Date/Time: 9/23/20 / 16:00 Company: EPA		Received by: [Signature] Date/Time: 9-24-20 / 9:15 Company: EPA			
Relinquished by: [Signature] Date/Time: 9/23/20 / 16:00 Company: EPA		Received by: [Signature] Date/Time: 9-24-20 / 9:15 Company: EPA			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts Project Name: CCR - Plant Wansley Ash Pond Site:		Lab PM: Brown, Shali E-Mail: shali.brown@eur	
Sampler: <i>D. Figueira, J. BERTS FORD</i> Phone: (770) 544-5998		Carrier Tracking No(s):  180-111526 Chain of Custody	
Date Requested: TAT Requested (days): PO #: SCS10382606 WO #:		COC No: Page: Job #:	
Detected App IV Metals (EPA 6020/7470): As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl (SW-846 9316/9320) Radium 226 & 228 (EPA 300.0 & SM 2540C) Cl, F, SO ₄ & TDS App. III Metals (B, Ca)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify) Other:	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=wastebottom, BT=Tissue, A=Air) Preservation Code: Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Total Number of Containers Special Instructions/Note:	
DUP-2 FB-2 - 9-24-20 FB-2 - 9-24-20 W6WC-17 W6WC-10 W6WC-15 W6WC-16 W6WC-9 W6WC-13 W6WC-14A W6WC-19		3 NA 3 NA 3 NA 4 5.89 3 6.14 3 7.35 3 5.05 3 5.80 3 6.29 3 5.16 3 6.59	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date: 9/25/20 08:30 Company: ACO		Method of Shipment: Date/Time: 9/25/20 08:30 Company: ETA	
Relinquished by: <i>[Signature]</i> Date/Time: 9/25/20 16:00 Company: ETA		Received by: <i>[Signature]</i> Date/Time: 9/26/20 12:00 Company: KONO	
Relinquished by: <i>[Signature]</i> Date/Time: 9/25/20 16:00 Company: ETA		Received by: <i>[Signature]</i> Date/Time: 9/26/20 12:00 Company: KONO	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	

FINAL COC / SAMPLING COMPLETE

Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116 (Tel) Email: SCS Contacts Project Name: CCR - Plant Wansley Ash Pond Site:		Lab PM: Brown, Shali E-Mail: shall.brown@eurofins.com Phone: (770) 594-5998 Sampler: O. Fuquea		Carner Tracking No(s): COC No: Page: Job #:	
Analysis Requested					
Due Date Requested: TAT Requested (days):		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
PO #: SCS10382606 WO #:		Special Instructions/Note: Total Number of containers:			
Matrix (Water, Solid, or Tissue, A=Air) Sample Type (C=comp, G=grab) Sample Date Sample Time Sample Identification		Matrix (Water, Solid, or Tissue, A=Air) Sample Type (C=comp, G=grab) Sample Date Sample Time Sample Identification		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) App. III Metals (B,Ca) Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C) Detected App IV Metals (EPA 6020/470): As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-846 9315/9320)	
WGWC-11 WGWC-12		G G G G G G G G G G G		pH= 5.50 pH= 6.42 pH= pH= pH= pH= pH= pH= pH= pH= pH=	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Method of Sampling:			
Relinquished by:		Date/Time:			
Relinquished by:		Date/Time:			
Relinquished by:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			



Environment Testing
TestAmerica

19468-43# RIT2 EXP 09/20

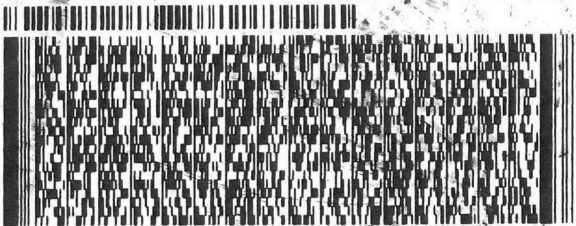
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 23SEP20
ACTWGT: 58.40 LB
CAD: 859116/CAFE3406

BILL RECIPIENT

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

(412) 983-7068
REF: GA POWER



FedEx
Express



AN1090116#0102F

1 of 3

TRK# 1516 9325 1493
0201
MASTER

THU - 24 SEP 3:00P
STANDARD OVERNIGHT

NA AGCA

Uncorrected temp
Thermometer ID

2.4 / 14 °C

15238

PA-US P

CF Initials
PT-WI-SR-001 effective 11/8/18

180-111399 Waybill



THU 24 SEP
STANDARD OVERN

15238
PIT

PA-US

2 of 3

MPS# 1516 9325 1508
0263
Mistr# 1516 9325 1493

0201

NA AGCA

Uncorrected temp
Thermometer ID

2.4 / 14 °C

Initials

CF Initials
PT-WI-SR-001 effective 11/8/18

PT-WI-SR-001 effective 11/8/18

onmen
tAmerica

SHIP DATE: 23SEP20
ACTWGT: 58.40 LB
CAD: 859116/CAFE3406

BILL RECIPIENT

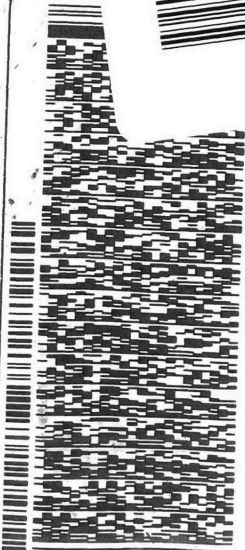
ID: LIYA (678) 966-9991

GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

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

(412) 983-7068

REF: GA POWER



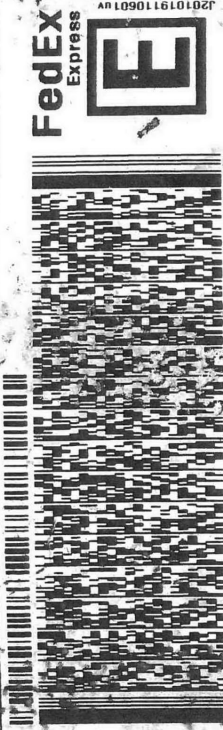
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SHIP DATE: 25SEP20
ACTWGT: 59.05 LB
CAD: 859116/CAFE3406
BILL RECIPIENT

ORIGIN: IDOLIVA* (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCCONOUGH DRIVE
SUITE 210
NORCROSS, GA 30093
UNITED STATES -GS

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

(412) 963-7068
REF: GA POWER



SATURDAY 12:00P
PRIORITY OVERNIGHT

1 of 3
TRK# 1516 9325 2055
0201
MASTER

X0 AGCA

15238
PA-US
PIT



Uncorrected temp
Thermometer ID
Initials
CF
PT-MI-SR-001 effective 11/8/18



180-111 526 Waybill

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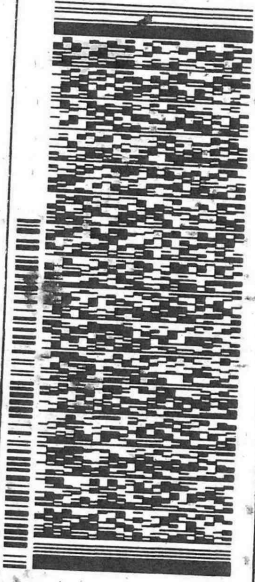
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 25SEP20
ACTWGT: 59.05 LB
CAD: 859116/CAFEB406

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7066
REF: GA POWER



3 of 3
MPS# 1516 9325 2077
Mstr# 1516 9325 2055
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Uncorrected temp 1.9 °C
Thermometer ID 14

CF 0 Initials B

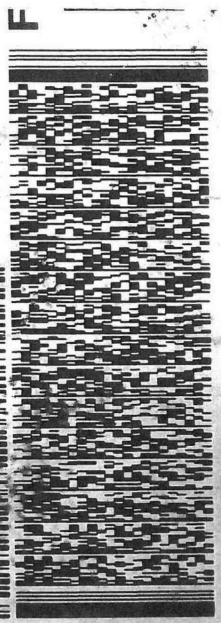
PT-WI-SR-001 effective 11/8/18

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 25SEP20
ACTWGT: 59.05 LB
CAD: 859116/CAFEB406

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7066
REF: GA POWER



2 of 3
MPS# 1516 9325 2066
Mstr# 1516 9325 2055
SATURDAY
PRIORITY OVE

XO AGCA

PA-L

Uncorrected temp 1.9 °C
Thermometer ID 14

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111399-1

Login Number: 111399

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.	False	
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: 180-111399-1

Login Number: 111526

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	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-111399-2

Client Project/Site: CCR - Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
12/9/2020 3:33:00 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Job ID: 180-111399-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-111399-2

Comments

No additional comments.

Receipt

The samples were received on 9/24/2020 9:15 AM and 9/26/2020 9:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.9° C, 1.9° C, 2.1° C, 2.4° C, 2.7° C and 3.4° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC wasn't relinquished.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-484391:

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.

Dup-2 (180-111526-1), EB-2-9-24-20 (180-111526-2), FB-2-9-24-20 (180-111526-3), WGWC-17 (180-111526-4), WGWC-10 (180-111526-5), WGWC-15 (180-111526-6), WGWC-16 (180-111526-7), WGWC-9 (180-111526-8), WGWC-13 (180-111526-9), WGWC-14A (180-111526-10), WGWC-19 (180-111526-11), WGWC-11 (180-111526-12), WGWC-12 (180-111526-13), (LCS 160-484391/1-A), (LCSD 160-484391/2-A) and (MB 160-484391/23-A)

Method 9315: Radium-226 prep batch 160-484404:

The following samples need to be re-analyzed due to MB contamination and activity in the samples above the MDC and RL. EB-1-9-22-20 (180-111399-2) and WGWA-2 (180-111399-4)

Methods 903.0, 9315: Radium-226 prep batch 160-484404:

The method blank (MB) has Ra-226 activity above the MDC and RL. The following associated samples are non-detect for the contaminant observed in the MB, therefore, re-analysis is not required. The data have been reported. Dup-1 (180-111399-1), FB-1-9-22-20 (180-111399-3) and (MB 160-484404/24-A)

Methods 903.0, 9315: Radium-226 prep batch 160-484404:

The method blank (MB) has Ra-226 activity above the MDC and RL. The following associated samples have results below the RL. All other QC is within limits (LCS, LCSD, and RER/RPD). The data have been reported with this narrative.

Dup-1 (180-111399-1), FB-1-9-22-20 (180-111399-3) and (MB 160-484404/24-A)

Methods 903.0, 9315: Radium-226 prep batch 160-484404:

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. Dup-1 (180-111399-1), FB-1-9-22-20 (180-111399-3), (LCS 160-484404/1-A), (LCSD 160-484404/2-A) and (MB 160-484404/24-A)

Methods 903.0, 9315: 903/9315 Prep Batch: 160-487775

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. EB-1-9-22-20 (180-111399-2), WGWA-2 (180-111399-4), WGWA-4 (180-111399-5), WGWA-3 (180-111399-6), WGWA-1 (180-111399-7), WGWA-5 (180-111399-8), WGWA-6 (180-111399-9), WGWA-7 (180-111399-10), WGWA-18 (180-111399-11) and WGWC-8 (180-111399-12)

Methods 904.0, 9320: 904 / 9320 prep batch: 160-484392

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. Dup-2 (180-111526-1), EB-2-9-24-20 (180-111526-2), FB-2-9-24-20 (180-111526-3), WGWC-17 (180-111526-4), WGWC-10 (180-111526-5), WGWC-15 (180-111526-6), WGWC-16 (180-111526-7), WGWC-9 (180-111526-8), WGWC-13

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Job ID: 180-111399-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

(180-111526-9), WGWC-14A (180-111526-10), WGWC-19 (180-111526-11), WGWC-11 (180-111526-12) and WGWC-12 (180-111526-13)

Methods 904.0, 9320: Ra 228 prep batch: 160-484437

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. WGWA-4 (180-111399-5), WGWA-3 (180-111399-6), WGWA-1 (180-111399-7), WGWA-5 (180-111399-8), WGWA-6 (180-111399-9), WGWA-7 (180-111399-10), WGWA-18 (180-111399-11) and WGWC-8 (180-111399-12)

Methods 904.0, 9320: Ra-228 prep batch 160-484405:

The Ra-228 laboratory control sample(LCS) recovery (166%) associated with the following samples is outside the upper QC limit of (125%) indicating a potential positive bias for that analyte. This analyte was not observed above the MDC/RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. Dup-1 (180-111399-1), EB-1-9-22-20 (180-111399-2), FB-1-9-22-20 (180-111399-3), WGWA-2 (180-111399-4) and (LCS 160-484405/1-A)

Methods 904.0, 9320: Ra-228 prep batch 160-484405:

The Ra-228 laboratory control sample(LCS) recovery (166%) associated with the following samples is outside the upper QC limit of (125%) indicating a potential positive bias for that analyte. This analyte was observed above the MDC/RL in the associated samples. Per client request, the data have been reported with this narrative. (LCS 160-484405/1-A)

Methods 904.0, 9320: Ra-228 prep batch 160-484405:

The following samples have an RER (replicate error ratio) result outside of the acceptance criteria of 1 (1.51) for Ra-228. Duplicate precision is demonstrated by acceptable relative percent difference (RPD), within the limit of 40% (40%). The samples have been evaluated in the LIMS against the QSM limit of 25 %. The flag have been removed and the data have been reported with this narrative. (LCSD 160-484405/2-A)

Methods 904.0, 9320: Ra-228 prep batch 160-484405:

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.

Dup-1 (180-111399-1), EB-1-9-22-20 (180-111399-2), FB-1-9-22-20 (180-111399-3), WGWA-2 (180-111399-4), (LCS 160-484405/1-A), (LCSD 160-484405/2-A) and (MB 160-484405/24-A)

Method PrecSep_0: Radium 228 Prep Batch 160-484392:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Dup-2 (180-111526-1), EB-2-9-24-20 (180-111526-2), FB-2-9-24-20 (180-111526-3), WGWC-17 (180-111526-4), WGWC-10 (180-111526-5), WGWC-15 (180-111526-6), WGWC-16 (180-111526-7), WGWC-9 (180-111526-8), WGWC-13 (180-111526-9), WGWC-14A (180-111526-10), WGWC-19 (180-111526-11), WGWC-11 (180-111526-12) and WGWC-12 (180-111526-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-484405:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Dup-1 (180-111399-1), EB-1-9-22-20 (180-111399-2), FB-1-9-22-20 (180-111399-3) and WGWA-2 (180-111399-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-484437:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-4 (180-111399-5), WGWA-3 (180-111399-6), WGWA-1 (180-111399-7), WGWA-5 (180-111399-8), WGWA-6 (180-111399-9), WGWA-7 (180-111399-10), WGWA-18 (180-111399-11) and WGWC-8 (180-111399-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-484391:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Dup-2 (180-111526-1), EB-2-9-24-20 (180-111526-2), FB-2-9-24-20 (180-111526-3), WGWC-17 (180-111526-4), WGWC-10 (180-111526-5), WGWC-15 (180-111526-6), WGWC-16 (180-111526-7), WGWC-9 (180-111526-8), WGWC-13 (180-111526-9), WGWC-14A (180-111526-10), WGWC-19 (180-111526-11), WGWC-11 (180-111526-12) and WGWC-12 (180-111526-13). A laboratory control sample/ laboratory control sample

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Job ID: 180-111399-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-484404:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Dup-1 (180-111399-1), EB-1-9-22-20 (180-111399-2), FB-1-9-22-20 (180-111399-3) and WGWA-2 (180-111399-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-484436:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-4 (180-111399-5), WGWA-3 (180-111399-6), WGWA-1 (180-111399-7), WGWA-5 (180-111399-8), WGWA-6 (180-111399-9), WGWA-7 (180-111399-10), WGWA-18 (180-111399-11) and WGWC-8 (180-111399-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-487775:

Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-1-9-22-20 (180-111399-2), WGWA-2 (180-111399-4), WGWA-4 (180-111399-5), WGWA-3 (180-111399-6), WGWA-1 (180-111399-7), WGWA-5 (180-111399-8), WGWA-6 (180-111399-9), WGWA-7 (180-111399-10), WGWA-18 (180-111399-11) and WGWC-8 (180-111399-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-487775:

The following samples were prepared at a reduced aliquot due to re extract of the samples: EB-1-9-22-20 (180-111399-2), WGWA-2 (180-111399-4), WGWA-4 (180-111399-5), WGWA-3 (180-111399-6), WGWA-1 (180-111399-7), WGWA-5 (180-111399-8), WGWA-6 (180-111399-9), WGWA-7 (180-111399-10), WGWA-18 (180-111399-11) and WGWC-8 (180-111399-12).

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: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Iowa	State	373	12-01-22
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-111399-1	Dup-1	Water	09/21/20 00:00	09/24/20 09:15	
180-111399-2	EB-1-9-22-20	Water	09/22/20 11:20	09/24/20 09:15	
180-111399-3	FB-1-9-22-20	Water	09/22/20 14:10	09/24/20 09:15	
180-111399-4	WGWA-2	Water	09/21/20 12:10	09/24/20 09:15	
180-111399-5	WGWA-4	Water	09/21/20 14:00	09/24/20 09:15	
180-111399-6	WGWA-3	Water	09/21/20 15:01	09/24/20 09:15	
180-111399-7	WGWA-1	Water	09/22/20 10:57	09/24/20 09:15	
180-111399-8	WGWA-5	Water	09/22/20 12:20	09/24/20 09:15	
180-111399-9	WGWA-6	Water	09/22/20 10:30	09/24/20 09:15	
180-111399-10	WGWA-7	Water	09/22/20 14:20	09/24/20 09:15	
180-111399-11	WGWA-18	Water	09/22/20 13:15	09/24/20 09:15	
180-111399-12	WGWC-8	Water	09/22/20 14:30	09/24/20 09:15	
180-111526-1	Dup-2	Water	09/23/20 00:00	09/26/20 09:00	
180-111526-2	EB-2-9-24-20	Water	09/24/20 11:50	09/26/20 09:00	
180-111526-3	FB-2-9-24-20	Water	09/24/20 10:00	09/26/20 09:00	
180-111526-4	WGWC-17	Water	09/23/20 11:11	09/26/20 09:00	
180-111526-5	WGWC-10	Water	09/23/20 12:25	09/26/20 09:00	
180-111526-6	WGWC-15	Water	09/23/20 14:35	09/26/20 09:00	
180-111526-7	WGWC-16	Water	09/23/20 13:30	09/26/20 09:00	
180-111526-8	WGWC-9	Water	09/23/20 15:50	09/26/20 09:00	
180-111526-9	WGWC-13	Water	09/24/20 11:05	09/26/20 09:00	
180-111526-10	WGWC-14A	Water	09/24/20 09:55	09/26/20 09:00	
180-111526-11	WGWC-19	Water	09/23/20 15:00	09/26/20 09:00	
180-111526-12	WGWC-11	Water	09/24/20 10:20	09/26/20 09:00	
180-111526-13	WGWC-12	Water	09/23/20 13:55	09/26/20 09:00	

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

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: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: Dup-1

Lab Sample ID: 180-111399-1

Date Collected: 09/21/20 00:00

Matrix: Water

Date Received: 09/24/20 09:15

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	484404	10/01/20 11:19	AVB	TAL SL
Total/NA	Analysis	9315		1			486960	10/27/20 14:02	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.23 mL	1.0 g	484405	10/01/20 11:51	AVB	TAL SL
Total/NA	Analysis	9320		1			486847	10/26/20 13:10	SCB	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			487773	11/02/20 23:25	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1-9-22-20

Lab Sample ID: 180-111399-2

Date Collected: 09/22/20 11:20

Matrix: Water

Date Received: 09/24/20 09:15

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			749.09 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:20	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.35 mL	1.0 g	484405	10/01/20 11:51	AVB	TAL SL
Total/NA	Analysis	9320		1			486847	10/26/20 13:10	SCB	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1-9-22-20

Lab Sample ID: 180-111399-3

Date Collected: 09/22/20 14:10

Matrix: Water

Date Received: 09/24/20 09:15

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			999.68 mL	1.0 g	484404	10/01/20 11:19	AVB	TAL SL
Total/NA	Analysis	9315		1			486960	10/27/20 14:02	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.68 mL	1.0 g	484405	10/01/20 11:51	AVB	TAL SL
Total/NA	Analysis	9320		1			486847	10/26/20 13:10	SCB	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			487773	11/02/20 23:25	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-111399-4

Date Collected: 09/21/20 12:10

Matrix: Water

Date Received: 09/24/20 09:15

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			749.46 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:21	SCB	TAL SL
Instrument ID: GFPCRED										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-111399-4

Date Collected: 09/21/20 12:10

Matrix: Water

Date Received: 09/24/20 09:15

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			1000.36 mL	1.0 g	484405	10/01/20 11:51	AVB	TAL SL
Total/NA	Analysis	9320		1			486847	10/26/20 13:10	SCB	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-111399-5

Date Collected: 09/21/20 14:00

Matrix: Water

Date Received: 09/24/20 09:15

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			750.16 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:21	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.93 mL	1.0 g	484437	10/02/20 07:05	AVB	TAL SL
Total/NA	Analysis	9320		1			486425	10/20/20 12:48	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-111399-6

Date Collected: 09/21/20 15:01

Matrix: Water

Date Received: 09/24/20 09:15

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			749.09 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:21	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.82 mL	1.0 g	484437	10/02/20 07:05	AVB	TAL SL
Total/NA	Analysis	9320		1			486425	10/20/20 12:48	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-1

Lab Sample ID: 180-111399-7

Date Collected: 09/22/20 10:57

Matrix: Water

Date Received: 09/24/20 09:15

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			749.72 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:21	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.26 mL	1.0 g	484437	10/02/20 07:05	AVB	TAL SL
Total/NA	Analysis	9320		1			486425	10/20/20 12:48	SCB	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-111399-7

Date Collected: 09/22/20 10:57

Matrix: Water

Date Received: 09/24/20 09:15

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			491202	12/08/20 22:04	GRW	TAL SL

Client Sample ID: WGWA-5

Lab Sample ID: 180-111399-8

Date Collected: 09/22/20 12:20

Matrix: Water

Date Received: 09/24/20 09:15

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			749.94 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:22	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.84 mL	1.0 g	484437	10/02/20 07:05	AVB	TAL SL
Total/NA	Analysis	9320		1			486425	10/20/20 12:48	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-111399-9

Date Collected: 09/22/20 10:30

Matrix: Water

Date Received: 09/24/20 09:15

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			750.12 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:22	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.89 mL	1.0 g	484437	10/02/20 07:05	AVB	TAL SL
Total/NA	Analysis	9320		1			486425	10/20/20 12:48	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-111399-10

Date Collected: 09/22/20 14:20

Matrix: Water

Date Received: 09/24/20 09:15

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			750.84 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:23	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.58 mL	1.0 g	484437	10/02/20 07:05	AVB	TAL SL
Total/NA	Analysis	9320		1			486425	10/20/20 12:48	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-111399-11

Date Collected: 09/22/20 13:15

Matrix: Water

Date Received: 09/24/20 09:15

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			749.01 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:23	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.62 mL	1.0 g	484437	10/02/20 07:05	AVB	TAL SL
Total/NA	Analysis	9320		1			486425	10/20/20 12:49	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-111399-12

Date Collected: 09/22/20 14:30

Matrix: Water

Date Received: 09/24/20 09:15

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			749.36 mL	1.0 g	487775	11/03/20 06:55	AVB	TAL SL
Total/NA	Analysis	9315		1			490978	12/07/20 06:23	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.39 mL	1.0 g	484437	10/02/20 07:05	AVB	TAL SL
Total/NA	Analysis	9320		1			486425	10/20/20 12:49	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			491202	12/08/20 22:04	GRW	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-111526-1

Date Collected: 09/23/20 00:00

Matrix: Water

Date Received: 09/26/20 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			999.72 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 10:22	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.72 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2-9-24-20

Lab Sample ID: 180-111526-2

Date Collected: 09/24/20 11:50

Matrix: Water

Date Received: 09/26/20 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			999.83 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 10:22	SCB	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: EB-2-9-24-20

Lab Sample ID: 180-111526-2

Date Collected: 09/24/20 11:50

Matrix: Water

Date Received: 09/26/20 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			999.83 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2-9-24-20

Lab Sample ID: 180-111526-3

Date Collected: 09/24/20 10:00

Matrix: Water

Date Received: 09/26/20 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			999.93 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 10:22	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.93 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-111526-4

Date Collected: 09/23/20 11:11

Matrix: Water

Date Received: 09/26/20 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	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 10:22	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.74 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-111526-5

Date Collected: 09/23/20 12:25

Matrix: Water

Date Received: 09/26/20 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			999.73 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 10:22	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.73 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-111526-5

Date Collected: 09/23/20 12:25

Matrix: Water

Date Received: 09/26/20 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			487771	11/02/20 23:24	SCB	TAL SL

Client Sample ID: WGWC-15

Lab Sample ID: 180-111526-6

Date Collected: 09/23/20 14:35

Matrix: Water

Date Received: 09/26/20 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			999.49 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 12:11	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.49 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:03	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-111526-7

Date Collected: 09/23/20 13:30

Matrix: Water

Date Received: 09/26/20 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			999.65 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 12:11	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.65 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:04	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-111526-8

Date Collected: 09/23/20 15:50

Matrix: Water

Date Received: 09/26/20 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			999.17 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 12:11	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.17 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:04	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-111526-9

Date Collected: 09/24/20 11:05

Matrix: Water

Date Received: 09/26/20 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			1000.01 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 12:11	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.01 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:04	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-111526-10

Date Collected: 09/24/20 09:55

Matrix: Water

Date Received: 09/26/20 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			999.23 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 12:11	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.23 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:04	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-111526-11

Date Collected: 09/23/20 15:00

Matrix: Water

Date Received: 09/26/20 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			999.44 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 12:12	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.44 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485929	10/16/20 12:04	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-111526-12

Date Collected: 09/24/20 10:20

Matrix: Water

Date Received: 09/26/20 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			1000.34 mL	1.0 g	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 12:12	SCB	TAL SL
Instrument ID: GFPCRED										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-111526-12

Date Collected: 09/24/20 10:20

Matrix: Water

Date Received: 09/26/20 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			1000.34 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485931	10/16/20 12:05	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 180-111526-13

Date Collected: 09/23/20 13:55

Matrix: Water

Date Received: 09/26/20 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	484391	10/01/20 06:59	AVB	TAL SL
Total/NA	Analysis	9315		1			486669	10/24/20 12:12	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.29 mL	1.0 g	484392	10/01/20 08:24	AVB	TAL SL
Total/NA	Analysis	9320		1			485931	10/16/20 12:05	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			487771	11/02/20 23:24	SCB	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

AVB = Amber Bleem

Batch Type: Analysis

FLC = Fernando Cruz

GRW = George Witt

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: Dup-1
Date Collected: 09/21/20 00:00
Date Received: 09/24/20 09:15

Lab Sample ID: 180-111399-1
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	0.0194	U	0.110	0.110	1.00	0.224	pCi/L	10/01/20 11:19	10/27/20 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					10/01/20 11:19	10/27/20 14:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.385	U *	0.318	0.320	1.00	0.506	pCi/L	10/01/20 11:51	10/26/20 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					10/01/20 11:51	10/26/20 13:10	1
Y Carrier	83.4		40 - 110					10/01/20 11:51	10/26/20 13:10	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	0.405	U	0.336	0.338	2.00	0.506	pCi/L		11/02/20 23:25	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: EB-1-9-22-20

Lab Sample ID: 180-111399-2

Date Collected: 09/22/20 11:20

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.63		0.324	0.356	1.00	0.215	pCi/L	11/03/20 06:55	12/07/20 06:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					11/03/20 06:55	12/07/20 06:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U *	0.276	0.276	1.00	0.471	pCi/L	10/01/20 11:51	10/26/20 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.1		40 - 110					10/01/20 11:51	10/26/20 13:10	1
Y Carrier	83.7		40 - 110					10/01/20 11:51	10/26/20 13:10	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	1.78		0.426	0.450	2.00	0.471	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: FB-1-9-22-20

Lab Sample ID: 180-111399-3

Date Collected: 09/22/20 14:10

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124	U	0.135	0.135	1.00	0.215	pCi/L	10/01/20 11:19	10/27/20 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					10/01/20 11:19	10/27/20 14:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0751	U *	0.236	0.236	1.00	0.411	pCi/L	10/01/20 11:51	10/26/20 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					10/01/20 11:51	10/26/20 13:10	1
Y Carrier	82.2		40 - 110					10/01/20 11:51	10/26/20 13:10	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	0.199	U	0.272	0.272	2.00	0.411	pCi/L		11/02/20 23:25	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-111399-4

Date Collected: 09/21/20 12:10

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136	U	0.151	0.151	1.00	0.244	pCi/L	11/03/20 06:55	12/07/20 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		40 - 110					11/03/20 06:55	12/07/20 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.282	U *	0.262	0.263	1.00	0.422	pCi/L	10/01/20 11:51	10/26/20 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					10/01/20 11:51	10/26/20 13:10	1
Y Carrier	82.6		40 - 110					10/01/20 11:51	10/26/20 13:10	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	0.418	U	0.302	0.303	2.00	0.422	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-111399-5

Date Collected: 09/21/20 14:00

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0960	U	0.167	0.167	1.00	0.294	pCi/L	11/03/20 06:55	12/07/20 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.9		40 - 110					11/03/20 06:55	12/07/20 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.976		0.396	0.406	1.00	0.558	pCi/L	10/02/20 07:05	10/20/20 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		40 - 110					10/02/20 07:05	10/20/20 12:48	1
Y Carrier	72.9		40 - 110					10/02/20 07:05	10/20/20 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.07		0.430	0.439	2.00	0.558	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-3

Lab Sample ID: 180-111399-6

Date Collected: 09/21/20 15:01

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0440	U	0.138	0.138	1.00	0.261	pCi/L	11/03/20 06:55	12/07/20 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.2		40 - 110					11/03/20 06:55	12/07/20 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0248	U	0.303	0.303	1.00	0.541	pCi/L	10/02/20 07:05	10/20/20 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		40 - 110					10/02/20 07:05	10/20/20 12:48	1
Y Carrier	75.9		40 - 110					10/02/20 07:05	10/20/20 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0688	U	0.333	0.333	2.00	0.541	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-111399-7

Date Collected: 09/22/20 10:57

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.189	U	0.166	0.166	1.00	0.255	pCi/L	11/03/20 06:55	12/07/20 06:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					11/03/20 06:55	12/07/20 06:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.539		0.312	0.316	1.00	0.468	pCi/L	10/02/20 07:05	10/20/20 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					10/02/20 07:05	10/20/20 12:48	1
Y Carrier	75.1		40 - 110					10/02/20 07:05	10/20/20 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.729		0.353	0.357	2.00	0.468	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-111399-8

Date Collected: 09/22/20 12:20

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.187	U	0.200	0.201	1.00	0.315	pCi/L	11/03/20 06:55	12/07/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.8		40 - 110					11/03/20 06:55	12/07/20 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.767		0.417	0.423	1.00	0.624	pCi/L	10/02/20 07:05	10/20/20 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					10/02/20 07:05	10/20/20 12:48	1
Y Carrier	71.8		40 - 110					10/02/20 07:05	10/20/20 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.954		0.462	0.468	2.00	0.624	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-111399-9

Date Collected: 09/22/20 10:30

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.716		0.260	0.268	1.00	0.267	pCi/L	11/03/20 06:55	12/07/20 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.9		40 - 110					11/03/20 06:55	12/07/20 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.93		0.740	0.977	1.00	0.566	pCi/L	10/02/20 07:05	10/20/20 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					10/02/20 07:05	10/20/20 12:48	1
Y Carrier	69.2		40 - 110					10/02/20 07:05	10/20/20 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	7.65		0.784	1.01	2.00	0.566	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-111399-10

Date Collected: 09/22/20 14:20

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0314	U	0.0770	0.0770	1.00	0.185	pCi/L	11/03/20 06:55	12/07/20 06:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/03/20 06:55	12/07/20 06:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0837	U	0.412	0.412	1.00	0.718	pCi/L	10/02/20 07:05	10/20/20 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					10/02/20 07:05	10/20/20 12:48	1
Y Carrier	70.3		40 - 110					10/02/20 07:05	10/20/20 12:48	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0523	U	0.419	0.419	2.00	0.718	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-111399-11

Date Collected: 09/22/20 13:15

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0361	U	0.0700	0.0701	1.00	0.176	pCi/L	11/03/20 06:55	12/07/20 06:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					11/03/20 06:55	12/07/20 06:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.593	U	0.416	0.419	1.00	0.647	pCi/L	10/02/20 07:05	10/20/20 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					10/02/20 07:05	10/20/20 12:49	1
Y Carrier	66.9		40 - 110					10/02/20 07:05	10/20/20 12:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.557	U	0.422	0.425	2.00	0.647	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-111399-12

Date Collected: 09/22/20 14:30

Matrix: Water

Date Received: 09/24/20 09:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.293		0.160	0.162	1.00	0.195	pCi/L	11/03/20 06:55	12/07/20 06:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		40 - 110					11/03/20 06:55	12/07/20 06:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.46		0.445	0.465	1.00	0.594	pCi/L	10/02/20 07:05	10/20/20 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/02/20 07:05	10/20/20 12:49	1
Y Carrier	73.6		40 - 110					10/02/20 07:05	10/20/20 12:49	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.75		0.473	0.492	2.00	0.594	pCi/L		12/08/20 22:04	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: Dup-2
Date Collected: 09/23/20 00:00
Date Received: 09/26/20 09:00

Lab Sample ID: 180-111526-1
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	0.0630	U	0.0634	0.0636	1.00	0.0983	pCi/L	10/01/20 06:59	10/24/20 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/01/20 06:59	10/24/20 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.278	U	0.291	0.292	1.00	0.474	pCi/L	10/01/20 08:24	10/16/20 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/01/20 08:24	10/16/20 12:03	1
Y Carrier	74.4		40 - 110					10/01/20 08:24	10/16/20 12:03	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	0.341	U	0.298	0.299	2.00	0.474	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: EB-2-9-24-20

Lab Sample ID: 180-111526-2

Date Collected: 09/24/20 11:50

Matrix: Water

Date Received: 09/26/20 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	0.000	U	0.0472	0.0472	1.00	0.102	pCi/L	10/01/20 06:59	10/24/20 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					10/01/20 06:59	10/24/20 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.241	U	0.269	0.270	1.00	0.442	pCi/L	10/01/20 08:24	10/16/20 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					10/01/20 08:24	10/16/20 12:03	1
Y Carrier	77.4		40 - 110					10/01/20 08:24	10/16/20 12:03	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	0.241	U	0.273	0.274	2.00	0.442	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: FB-2-9-24-20

Lab Sample ID: 180-111526-3

Date Collected: 09/24/20 10:00

Matrix: Water

Date Received: 09/26/20 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	0.0916	U	0.0772	0.0776	1.00	0.114	pCi/L	10/01/20 06:59	10/24/20 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					10/01/20 06:59	10/24/20 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.119	U	0.293	0.294	1.00	0.505	pCi/L	10/01/20 08:24	10/16/20 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					10/01/20 08:24	10/16/20 12:03	1
Y Carrier	72.9		40 - 110					10/01/20 08:24	10/16/20 12:03	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	0.211	U	0.303	0.304	2.00	0.505	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-111526-4

Date Collected: 09/23/20 11:11

Matrix: Water

Date Received: 09/26/20 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	0.126		0.0896	0.0903	1.00	0.126	pCi/L	10/01/20 06:59	10/24/20 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		40 - 110					10/01/20 06:59	10/24/20 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.517	U	0.347	0.351	1.00	0.538	pCi/L	10/01/20 08:24	10/16/20 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		40 - 110					10/01/20 08:24	10/16/20 12:03	1
Y Carrier	72.5		40 - 110					10/01/20 08:24	10/16/20 12:03	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	0.643		0.358	0.362	2.00	0.538	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-111526-5

Date Collected: 09/23/20 12:25

Matrix: Water

Date Received: 09/26/20 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	0.0853	U	0.0763	0.0767	1.00	0.115	pCi/L	10/01/20 06:59	10/24/20 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					10/01/20 06:59	10/24/20 10:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.356	U	0.324	0.325	1.00	0.522	pCi/L	10/01/20 08:24	10/16/20 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					10/01/20 08:24	10/16/20 12:03	1
Y Carrier	74.0		40 - 110					10/01/20 08:24	10/16/20 12:03	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	0.442	U	0.333	0.334	2.00	0.522	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-111526-6

Date Collected: 09/23/20 14:35

Matrix: Water

Date Received: 09/26/20 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	0.0875	U	0.0714	0.0719	1.00	0.101	pCi/L	10/01/20 06:59	10/24/20 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					10/01/20 06:59	10/24/20 12:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.360	U	0.303	0.304	1.00	0.481	pCi/L	10/01/20 08:24	10/16/20 12:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					10/01/20 08:24	10/16/20 12:03	1
Y Carrier	75.1		40 - 110					10/01/20 08:24	10/16/20 12:03	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	0.448	U	0.311	0.312	2.00	0.481	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-111526-7

Date Collected: 09/23/20 13:30

Matrix: Water

Date Received: 09/26/20 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	0.179		0.0857	0.0872	1.00	0.0947	pCi/L	10/01/20 06:59	10/24/20 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					10/01/20 06:59	10/24/20 12:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0977	U	0.280	0.280	1.00	0.484	pCi/L	10/01/20 08:24	10/16/20 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					10/01/20 08:24	10/16/20 12:04	1
Y Carrier	75.1		40 - 110					10/01/20 08:24	10/16/20 12:04	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	0.276	U	0.293	0.293	2.00	0.484	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-111526-8

Date Collected: 09/23/20 15:50

Matrix: Water

Date Received: 09/26/20 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	0.0153	U	0.0479	0.0479	1.00	0.0926	pCi/L	10/01/20 06:59	10/24/20 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					10/01/20 06:59	10/24/20 12:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0434	U	0.266	0.266	1.00	0.467	pCi/L	10/01/20 08:24	10/16/20 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					10/01/20 08:24	10/16/20 12:04	1
Y Carrier	74.8		40 - 110					10/01/20 08:24	10/16/20 12:04	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	0.0587	U	0.270	0.270	2.00	0.467	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-111526-9

Date Collected: 09/24/20 11:05

Matrix: Water

Date Received: 09/26/20 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	0.259		0.114	0.117	1.00	0.138	pCi/L	10/01/20 06:59	10/24/20 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					10/01/20 06:59	10/24/20 12:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.761		0.319	0.327	1.00	0.439	pCi/L	10/01/20 08:24	10/16/20 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					10/01/20 08:24	10/16/20 12:04	1
Y Carrier	74.0		40 - 110					10/01/20 08:24	10/16/20 12:04	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.02		0.339	0.347	2.00	0.439	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-111526-10

Date Collected: 09/24/20 09:55

Matrix: Water

Date Received: 09/26/20 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	0.308		0.112	0.115	1.00	0.107	pCi/L	10/01/20 06:59	10/24/20 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					10/01/20 06:59	10/24/20 12:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.487	U	0.337	0.340	1.00	0.525	pCi/L	10/01/20 08:24	10/16/20 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					10/01/20 08:24	10/16/20 12:04	1
Y Carrier	75.5		40 - 110					10/01/20 08:24	10/16/20 12:04	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	0.796		0.355	0.359	2.00	0.525	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-111526-11

Date Collected: 09/23/20 15:00

Matrix: Water

Date Received: 09/26/20 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	1.03		0.189	0.211	1.00	0.107	pCi/L	10/01/20 06:59	10/24/20 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		40 - 110					10/01/20 06:59	10/24/20 12:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.152	U	0.314	0.314	1.00	0.535	pCi/L	10/01/20 08:24	10/16/20 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		40 - 110					10/01/20 08:24	10/16/20 12:04	1
Y Carrier	77.0		40 - 110					10/01/20 08:24	10/16/20 12:04	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.18		0.366	0.378	2.00	0.535	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-111526-12

Date Collected: 09/24/20 10:20

Matrix: Water

Date Received: 09/26/20 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	0.0634	U	0.0612	0.0615	1.00	0.0927	pCi/L	10/01/20 06:59	10/24/20 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					10/01/20 06:59	10/24/20 12:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.14		0.356	0.371	1.00	0.468	pCi/L	10/01/20 08:24	10/16/20 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					10/01/20 08:24	10/16/20 12:05	1
Y Carrier	78.5		40 - 110					10/01/20 08:24	10/16/20 12:05	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.20		0.361	0.376	2.00	0.468	pCi/L		11/02/20 23:24	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-111526-13

Date Collected: 09/23/20 13:55

Matrix: Water

Date Received: 09/26/20 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	0.0993	U	0.0747	0.0753	1.00	0.103	pCi/L	10/01/20 06:59	10/24/20 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		40 - 110					10/01/20 06:59	10/24/20 12:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.685		0.333	0.339	1.00	0.484	pCi/L	10/01/20 08:24	10/16/20 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		40 - 110					10/01/20 08:24	10/16/20 12:05	1
Y Carrier	80.0		40 - 110					10/01/20 08:24	10/16/20 12:05	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	0.785		0.341	0.347	2.00	0.484	pCi/L		11/02/20 23:24	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-484391/23-A
Matrix: Water
Analysis Batch: 486669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484391

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07219	U	0.0708	0.0711	1.00	0.110	pCi/L	10/01/20 06:59	10/24/20 12:12	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	92.0		40 - 110					10/01/20 06:59	10/24/20 12:12	1

Lab Sample ID: LCS 160-484391/1-A
Matrix: Water
Analysis Batch: 486669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484391

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	113	94.57		10.2	1.00	0.974	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	80.2		40 - 110						

Lab Sample ID: LCSD 160-484391/2-A
Matrix: Water
Analysis Batch: 486669

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484391

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	113	103.2		10.8	1.00	0.909	pCi/L	91	75 - 125	0.41	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	89.6		40 - 110								

Lab Sample ID: MB 160-484404/24-A
Matrix: Water
Analysis Batch: 487030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484404

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	4.451		0.499	0.640	1.00	0.163	pCi/L	10/01/20 11:19	10/28/20 12:49	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	83.4		40 - 110					10/01/20 11:19	10/28/20 12:49	1

Lab Sample ID: LCS 160-484404/1-A
Matrix: Water
Analysis Batch: 486960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484404

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.47		1.33	1.00	0.245	pCi/L	92	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-484404/1-A
Matrix: Water
Analysis Batch: 486960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484404

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	68.0		40 - 110

Lab Sample ID: LCSD 160-484404/2-A
Matrix: Water
Analysis Batch: 486960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484404

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.3	10.28		1.27	1.00	0.224	pCi/L	91	75 - 125	0.07	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	77.5		40 - 110

Lab Sample ID: MB 160-487775/14-A
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487775

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.1557	U	0.0856	0.0868	1.00	0.300	pCi/L	11/03/20 06:55	12/07/20 06:23	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		40 - 110	11/03/20 06:55	12/07/20 06:23	1

Lab Sample ID: LCS 160-487775/1-A
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487775

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	15.1	13.81		1.53	1.00	0.221	pCi/L	91	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	83.3		40 - 110

Lab Sample ID: LCSD 160-487775/2-A
Matrix: Water
Analysis Batch: 490978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487775

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	15.1	13.23		1.50	1.00	0.202	pCi/L	87	75 - 125	0.19	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	76.2		40 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-484392/23-A
Matrix: Water
Analysis Batch: 485931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484392

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)							
Radium-228	0.8933		0.294	0.305	1.00	0.387	pCi/L	10/01/20 08:24	10/16/20 12:05	1	
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed		Dil Fac
Ba Carrier	92.0		40 - 110				10/01/20 08:24		10/16/20 12:05		1
Y Carrier	82.6		40 - 110				10/01/20 08:24		10/16/20 12:05		1

Lab Sample ID: LCS 160-484392/1-A
Matrix: Water
Analysis Batch: 485929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484392

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	7.73	7.855		1.01	1.00	0.524	pCi/L	102	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	80.2		40 - 110						
Y Carrier	78.1		40 - 110						

Lab Sample ID: LCSD 160-484392/2-A
Matrix: Water
Analysis Batch: 485929

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484392

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER
				Uncert. (2σ+/-)							Limit
Radium-228	7.73	8.658		1.05	1.00	0.447	pCi/L	112	75 - 125	0.39	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	89.6		40 - 110								
Y Carrier	80.0		40 - 110								

Lab Sample ID: MB 160-484405/24-A
Matrix: Water
Analysis Batch: 486847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484405

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)							
Radium-228	0.2400	U	0.293	0.294	1.00	0.485	pCi/L	10/01/20 11:51	10/26/20 13:11	1	
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed		Dil Fac
Ba Carrier	83.4		40 - 110				10/01/20 11:51		10/26/20 13:11		1
Y Carrier	79.6		40 - 110				10/01/20 11:51		10/26/20 13:11		1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

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

Lab Sample ID: LCS 160-484405/1-A
Matrix: Water
Analysis Batch: 486872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484405

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	7.70	12.76	*	1.67	1.00	0.808	pCi/L	166	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	68.0		40 - 110							
Y Carrier	56.1		40 - 110							

Lab Sample ID: LCSD 160-484405/2-A
Matrix: Water
Analysis Batch: 486872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484405

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
Radium-228	7.70	8.539		1.12	1.00	0.540	pCi/L	111	75 - 125	1.51	1	
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	77.5		40 - 110									
Y Carrier	71.8		40 - 110									

Lab Sample ID: MB 160-484437/23-A
Matrix: Water
Analysis Batch: 486271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484437

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
Radium-228	0.2421	U	0.285	0.286	1.00	0.470	pCi/L	10/02/20 07:05	10/20/20 07:05	10/20/20 12:57	10/20/20 12:57	1
MB MB												
Carrier	%Yield	Qualifier	Limits		Prepared		Analyzed		Dil Fac			
Ba Carrier	93.5		40 - 110		10/02/20 07:05		10/20/20 07:05		10/20/20 12:57			
Y Carrier	79.6		40 - 110		10/02/20 07:05		10/20/20 07:05		10/20/20 12:57			

Lab Sample ID: LCS 160-484437/1-A
Matrix: Water
Analysis Batch: 486425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484437

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	7.72	8.355		1.08	1.00	0.498	pCi/L	108	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	74.0		40 - 110							
Y Carrier	82.2		40 - 110							

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

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

Lab Sample ID: LCSD 160-484437/2-A
Matrix: Water
Analysis Batch: 486425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 484437

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	
									Min	Max	RER	Limit
Radium-228	7.72	7.414		0.983	1.00	0.465	pCi/L	96	75	125	0.46	1

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	79.0		40 - 110
Y Carrier	77.8		40 - 110

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Rad

Prep Batch: 484391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-1	Dup-2	Total/NA	Water	PrecSep-21	
180-111526-2	EB-2-9-24-20	Total/NA	Water	PrecSep-21	
180-111526-3	FB-2-9-24-20	Total/NA	Water	PrecSep-21	
180-111526-4	WGWC-17	Total/NA	Water	PrecSep-21	
180-111526-5	WGWC-10	Total/NA	Water	PrecSep-21	
180-111526-6	WGWC-15	Total/NA	Water	PrecSep-21	
180-111526-7	WGWC-16	Total/NA	Water	PrecSep-21	
180-111526-8	WGWC-9	Total/NA	Water	PrecSep-21	
180-111526-9	WGWC-13	Total/NA	Water	PrecSep-21	
180-111526-10	WGWC-14A	Total/NA	Water	PrecSep-21	
180-111526-11	WGWC-19	Total/NA	Water	PrecSep-21	
180-111526-12	WGWC-11	Total/NA	Water	PrecSep-21	
180-111526-13	WGWC-12	Total/NA	Water	PrecSep-21	
MB 160-484391/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-484391/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-484391/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 484392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111526-1	Dup-2	Total/NA	Water	PrecSep_0	
180-111526-2	EB-2-9-24-20	Total/NA	Water	PrecSep_0	
180-111526-3	FB-2-9-24-20	Total/NA	Water	PrecSep_0	
180-111526-4	WGWC-17	Total/NA	Water	PrecSep_0	
180-111526-5	WGWC-10	Total/NA	Water	PrecSep_0	
180-111526-6	WGWC-15	Total/NA	Water	PrecSep_0	
180-111526-7	WGWC-16	Total/NA	Water	PrecSep_0	
180-111526-8	WGWC-9	Total/NA	Water	PrecSep_0	
180-111526-9	WGWC-13	Total/NA	Water	PrecSep_0	
180-111526-10	WGWC-14A	Total/NA	Water	PrecSep_0	
180-111526-11	WGWC-19	Total/NA	Water	PrecSep_0	
180-111526-12	WGWC-11	Total/NA	Water	PrecSep_0	
180-111526-13	WGWC-12	Total/NA	Water	PrecSep_0	
MB 160-484392/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-484392/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-484392/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 484404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-1	Dup-1	Total/NA	Water	PrecSep-21	
180-111399-3	FB-1-9-22-20	Total/NA	Water	PrecSep-21	
MB 160-484404/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-484404/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-484404/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 484405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-1	Dup-1	Total/NA	Water	PrecSep_0	
180-111399-2	EB-1-9-22-20	Total/NA	Water	PrecSep_0	
180-111399-3	FB-1-9-22-20	Total/NA	Water	PrecSep_0	
180-111399-4	WGWA-2	Total/NA	Water	PrecSep_0	
MB 160-484405/24-A	Method Blank	Total/NA	Water	PrecSep_0	

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QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Wansley Ash Pond

Job ID: 180-111399-2

Rad (Continued)

Prep Batch: 484405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-484405/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-484405/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 484437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-5	WGWA-4	Total/NA	Water	PrecSep_0	
180-111399-6	WGWA-3	Total/NA	Water	PrecSep_0	
180-111399-7	WGWA-1	Total/NA	Water	PrecSep_0	
180-111399-8	WGWA-5	Total/NA	Water	PrecSep_0	
180-111399-9	WGWA-6	Total/NA	Water	PrecSep_0	
180-111399-10	WGWA-7	Total/NA	Water	PrecSep_0	
180-111399-11	WGWA-18	Total/NA	Water	PrecSep_0	
180-111399-12	WGWC-8	Total/NA	Water	PrecSep_0	
MB 160-484437/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-484437/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-484437/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 487775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-111399-2	EB-1-9-22-20	Total/NA	Water	PrecSep-21	
180-111399-4	WGWA-2	Total/NA	Water	PrecSep-21	
180-111399-5	WGWA-4	Total/NA	Water	PrecSep-21	
180-111399-6	WGWA-3	Total/NA	Water	PrecSep-21	
180-111399-7	WGWA-1	Total/NA	Water	PrecSep-21	
180-111399-8	WGWA-5	Total/NA	Water	PrecSep-21	
180-111399-9	WGWA-6	Total/NA	Water	PrecSep-21	
180-111399-10	WGWA-7	Total/NA	Water	PrecSep-21	
180-111399-11	WGWA-18	Total/NA	Water	PrecSep-21	
180-111399-12	WGWC-8	Total/NA	Water	PrecSep-21	
MB 160-487775/14-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-487775/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-487775/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Client Information		Sampler: <u>O. FUQUEA, J. BEDSFORD</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:	
Address: <u>241 Ralph McGill Blvd SE</u>		Phone: <u>(770) 594-5998</u>		E-Mail: <u>shali.brown@eurofinset.com</u>		Page: <u>1</u>		Job #:	
City: <u>Atlanta</u>		State, Zip: <u>GA, 30308</u>		PO #: <u>SCS10382606</u>		Project #: <u>18019922</u>		SSOW#:	
Phone: <u>404-506-7116(Tel)</u>		Email: <u>GA Power</u>		TAT Requested (days):		Due Date Requested:		Analysis Requested	
SCS Contacts		SCS Contacts		Project Name: <u>CCR - Plant Wansley Ash Pond</u>		Site:		Preservation Codes: A - HCL B - NaOH C - 7% 2 3 3 seahydrate	
Site:		Matrix (w=water, s=solid, o=wastefoil, BT=Tissue, A=Al)		Sample Type (C=comp, G=grab)		Sample Time		Sample Date	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		App. III Metals (B,Ca)		Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)		Detected App IV Metals (EPA 6020/470): As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl (SW-846 9315/9320)	
Sample Identification		Preservation Code:		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
<u>DUP-1</u>		<u>G</u>		<u>9-21-20</u>		<u>1120</u>		<u>G</u>	
<u>FB-1-9-22-20</u>		<u>G</u>		<u>9-22-20</u>		<u>1410</u>		<u>G</u>	
<u>FB-1-9-22-20</u>		<u>G</u>		<u>9-21-20</u>		<u>1210</u>		<u>G</u>	
<u>WGWA-2</u>		<u>G</u>		<u>9-21-20</u>		<u>1400</u>		<u>G</u>	
<u>WGWA-4</u>		<u>G</u>		<u>9-21-20</u>		<u>1501</u>		<u>G</u>	
<u>WGWA-3</u>		<u>G</u>		<u>9-22-20</u>		<u>1057</u>		<u>G</u>	
<u>WGWA-1</u>		<u>G</u>		<u>9-22-20</u>		<u>1220</u>		<u>G</u>	
<u>WGWA-5</u>		<u>G</u>		<u>9-22-20</u>		<u>1030</u>		<u>G</u>	
<u>WGWA-6</u>		<u>G</u>		<u>9-22-20</u>		<u>1420</u>		<u>G</u>	
<u>WGWA-7</u>		<u>G</u>		<u>9-22-20</u>		<u>1315</u>		<u>G</u>	
<u>WGWA-18</u>		<u>G</u>		<u>9-22-20</u>		<u>1315</u>		<u>G</u>	
Possible Hazard Identification		Radiological		Unknown		Toxic		Flammable	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Flammable		<input type="checkbox"/> Unknown		<input type="checkbox"/> Toxic		<input type="checkbox"/> Flammable		<input type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		Return To Client		Disposal By Lab		Archive For	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Months	
Relinquished by: <u>Acc</u>		Date/Time: <u>9-23-20 1315</u>		Company: <u>ACC</u>		Received by: <u>[Signature]</u>		Date/Time: <u>9/23/20 13:15</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>9/23/20 16:00</u>		Company: <u>ETR</u>		Received by: <u>[Signature]</u>		Date/Time: <u>9-24-20 9:15</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>9-24-20 9:15</u>		Company: <u>ETR</u>		Received by: <u>[Signature]</u>		Date/Time: <u>9-24-20 9:15</u>	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Special Instructions/QC Requirements:		Company: <u>ETR</u>	

ALANTA-772

Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: Project Name: CCR - Plant Wansley Ash Pond Site:		Sampler: O. Fouquet Lab PM: Brown, Shali Phone: (770) 594-5948 E-Mail: shali.brown@eurofinset.com		Carrier Tracking No(s): Page: 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18019922 SSOW#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> App. III Metals (B,Ca) <input checked="" type="checkbox"/> CI, F, SO ₄ & TDS (EPA 300.0 & SM 2540C) <input checked="" type="checkbox"/> Detected App IV Metals (EPA 6020/7470): As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl <input checked="" type="checkbox"/> Radium 226 & 228 (SW-846 9315/9320) <input checked="" type="checkbox"/>			
Sample Identification WGWC-8 Sample Date: 9-22-10 Sample Time: 1430 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water Preservation Code:		Total Number of containers: 3 pH= 5.17 Special Instructions/Note:			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Date/Time: 9-23-20 / 13:15 Company: ACC		Received by: [Signature] Date/Time: 9/23/20 Company: EPA			
Relinquished by: [Signature] Date/Time: 9/23/20 / 16:00 Company: EPA		Received by: [Signature] Date/Time: 9-24-20 Company: EPA			
Relinquished by: [Signature] Date/Time: 9/23/20 / 16:00 Company: EPA		Received by: [Signature] Date/Time: 9-24-20 Company: EPA			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



Client Information		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		E-Mail: shall.brown@eur		Total Number of Containers		Page:	
Company: GA Power		Phone: (770) 544-5998		Job #:		Job #:	
Address: 241 Ralph McGill Blvd SE		City: Atlanta		Date Requested:		Preservation Codes:	
State, Zip: GA, 30308		TAT Requested (days):		PO #:		M - Hexane	
Phone: 404-506-7116(Tel)		PO #:		SCS10382606		N - None	
Email:		WO #:		Project #:		O - AsNaO2	
SCS Contacts		Project #:		18019922		P - Na2OAS	
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:		Field Filtered Sample (Yes or No)		Q - Na2SO3	
Site:		Sample Date		Sample Time		R - Na2SO3	
Sample Identification		Sample Date		Sample Time		S - H2SO4	
DUP-2		9-23-20		1150		T - TSP Dodecahydrate	
FB-2 - 9-24-20		9-24-20		1000		U - Acetone	
FB-2 - 9-24-20		9-23-20		1111		V - MCAA	
W6WC-17		9-23-20		1225		W - pH 4-5	
W6WC-10		9-23-20		1435		X - EDTA	
W6WC-15		9-23-20		1330		Y - EDA	
W6WC-16		9-23-20		1550		Z - other (specify)	
W6WC-9		9-24-20		1105		Other:	
W6WC-13		9-24-20		0955		A - HCL	
W6WC-14A		9-23-20		1500		B - NaOH	
W6WC-19		9-23-20				C - Zn Acetate	
Possible Hazard Identification		Sample Type (C=comp, G=grab)		Matrix (Water, Solid, Waste, etc.)		D - Nitric Acid	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Preservation Code:		Water		E - NaHSO4	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Date		Sample Time		F - MeOH	
Empty Kit Relinquished by:		Date:		Date:		G - Amchlor	
Relinquished by:		Date:		Date:		H - Ascorbic Acid	
Relinquished by:		Date:		Date:		I - Ice	
Relinquished by:		Date:		Date:		J - DI Water	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		K - EDTA	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		L - EDA	
Method of Shipment:		Received by:		Date/Time:		M - Hexane	
Received by:		Date/Time:		Date/Time:		N - None	
Received by:		Date/Time:		Date/Time:		O - AsNaO2	
Received by:		Date/Time:		Date/Time:		P - Na2OAS	
Received by:		Date/Time:		Date/Time:		Q - Na2SO3	
Received by:		Date/Time:		Date/Time:		R - Na2SO3	
Received by:		Date/Time:		Date/Time:		S - H2SO4	
Received by:		Date/Time:		Date/Time:		T - TSP Dodecahydrate	
Received by:		Date/Time:		Date/Time:		U - Acetone	
Received by:		Date/Time:		Date/Time:		V - MCAA	
Received by:		Date/Time:		Date/Time:		W - pH 4-5	
Received by:		Date/Time:		Date/Time:		X - EDTA	
Received by:		Date/Time:		Date/Time:		Y - EDA	
Received by:		Date/Time:		Date/Time:		Z - other (specify)	



FINAL COC / SAMPLING COMPLETE

Client Information Client Contact: SCS Contacts Company: GA Power Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts Project Name: CCR - Plant Wansley Ash Pond Site:		Sampler: O. Fuquea Lab PM: Brown, Shali Phone: (770) 594-5998 E-Mail: shall.brown@eurofins.com		Carner Tracking No(s): COC No: Page: Job #:	
Due Date Requested: TAT Requested (days):		Analysis Requested			
PO #: SCS10382606 WO #:		Detected App IV Metals (EPA 6020/470): As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl Radium 226 & 228 (SW-846 9315/9320)			
Project #: 18019922 SOW#:		App. III Metals (B,Ca) Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)			
Sample Identification WGWC-11 WGWC-12		Sample Date 9-24-20 9-23-20		Sample Time 1020 1355	
Sample Type (C=comp, G=grab) G G G G G G G G G G		Matrix (W=water, S=solid, O=other, Oil, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water Water		Preservation Code: G G G G G G G G G G	
Total Number of containers 3 3		pH= 5.50 pH= 6.42		Special Instructions/Note: pH=	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date/Time: 9/25/20 08:30		Company:	
Relinquished by:		Date/Time: 9/25/20 16:20		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			



Environment Testing
TestAmerica

19468-43# RIT2 EXP 09/20

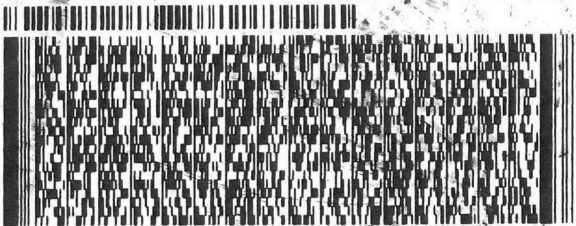
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 23SEP20
ACTWGT: 58.40 LB
CAD: 859116/CAFE3406

BILL RECIPIENT

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

(412) 963-7068
REF: GA POWER



FedEx
Express



ANJ1090116#0102F

1 of 3

TRK# 1516 9325 1493
0201
MASTER

THU - 24 SEP 3:00P
STANDARD OVERNIGHT

NA AGCA

Uncorrected temp
Thermometer ID

2.4 / 14 °C

15238

PA-US P

CF Initials
PT-WI-SR-001 effective 11/8/18

180-111399 Waybill

onmen
tAmerica

SHIP DATE:
ACTWGT: 58
CAD: 859116

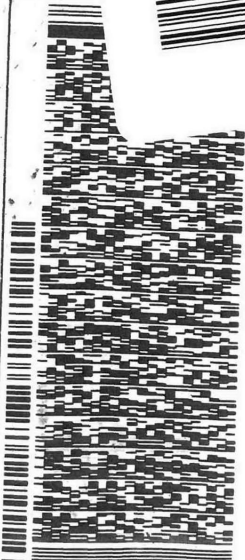
BILL RECIPIENT

ID: LIYA (678) 966-9991

GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

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

(412) 963-7068
REF: GA POWER



THU - 24 SEP
STANDARD OVERNIGHT

15238
PIT

PA-US

MPS# 1516 9325 1508
0263
Mistr# 1516 9325 1493

0201

NA AGCA

Uncorrected temp
Thermometer ID

2.4 / 14 °C

CF Initials

PT-WI-SR-001 effective 11/8/18



THU - 24 SEP 3:00P
STANDARD OVERNIGHT

15238
PIT

PA-US

MPS# 1516 9325 1519
0263
Mistr# 1516 9325 1493

0201

NA AGCA

Uncorrected temp
Thermometer ID

2.4 / 14 °C

CF Initials

PT-WI-SR-001 effective 11/8/18



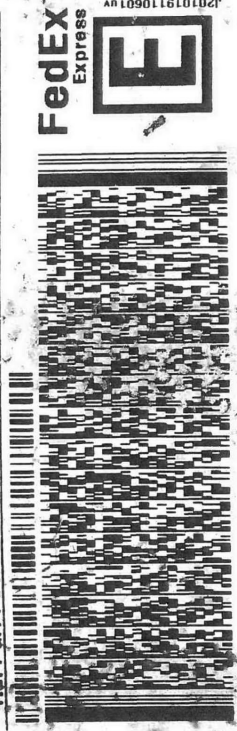
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

SHIP DATE: 25SEP20
ACTWGT: 59.05 LB
CAD: 859116/CAFE3406
BILL RECIPIENT

ORIGIN: IDOLIVA* (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCCONOUGH DRIVE
SUITE 210
NORCROSS, GA 30093
UNITED STATES -GS

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

(412) 963-7068
REF: GA POWER



SATURDAY 12:00P
PRIORITY OVERNIGHT

1 of 3
TRK# 1516 9325 2055
0201
MASTER

X0 AGCA

15238
PA-US
PIT

Uncorrected temp _____ °C
Thermometer ID _____
Initials JB

CF 0

PT-WI-SR-001 effective 11/8/18



180-111 526 Waybill

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- 6
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- 8
- 9
- 10
- 11
- 12
- 13

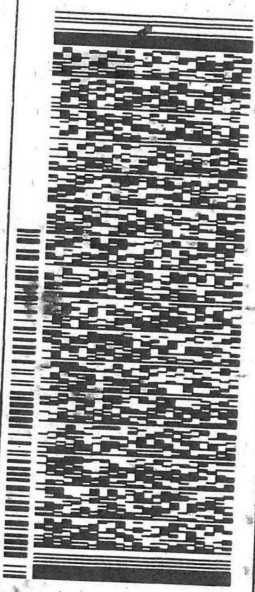
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 25SEP20
ACTMGT: 59.05 LB
CAD: 859116/CAFEB3

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7066
REF: GA POWER



3 of 3
MPS# 1516 9325 2077
Mstr# 1516 9325 2055
SATU AY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Uncorrected temp 1.9 °C
Thermometer ID 14

CF 0 Initials B

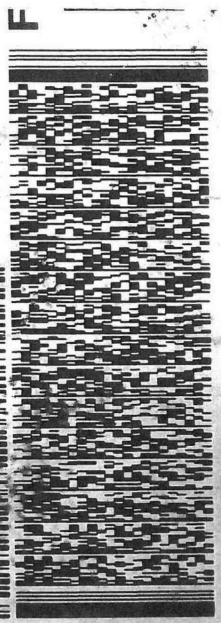
PT-WI-SR-001 effective 11/8/18

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTAMERICA
6500 MCDONOUGH DRIVE
SUITE C-10
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 25SEP20
ACTMGT: 59.05 LB
CAD: 859116/CAFEB3

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7066
REF: GA POWER



2 of 3
MPS# 1516 9325 2066
Mstr# 1516 9325 2055
SATURDAY
PRIORITY OVE

XO AGCA

PA-L

Uncorrected temp 1.9 °C
Thermometer ID 14

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shaili	Carrier Tracking No(s): 180-412750.1
Client Contact: Shipping/Receiving		E-Mail: Shaili.Brown@Eurofins.com	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Job #: 180-111399-2
Address: 13715 Rider Trail North,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (specify) Other:	
City: Earth City	State, Zip: MO, 63045	Analysis Requested	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Total Number of containers	
Email:	WO #:	Field Filtered Sample (Yes or No)	
Project Name: CCR - Plant Wansley Ash Pond	Project #: 18019922	Perform MS/MSD (Yes or No)	
Site: Wansley CCR	SSOW#:	9320_Ra228/PreSep_0 Radium 228	
Sample Identification - Client ID (Lab ID)		9315_Ra226/PreSep_21 Radium 226	
		Radium-228	
		Radium-228 GFPC/ Combined Radium-226 and	
Dup-1 (180-111399-1)	Sample Date: 9/21/20	Sample Time: Eastern	Matrix: Water
EB-1-9-22-20 (180-111399-2)	Sample Date: 9/22/20	Sample Time: 11:20 Eastern	Matrix: Water
FB-1-9-22-20 (180-111399-3)	Sample Date: 9/22/20	Sample Time: 14:10 Eastern	Matrix: Water
WGWA-2 (180-111399-4)	Sample Date: 9/21/20	Sample Time: 12:10 Eastern	Matrix: Water
WGWA-4 (180-111399-5)	Sample Date: 9/21/20	Sample Time: 14:00 Eastern	Matrix: Water
WGWA-3 (180-111399-6)	Sample Date: 9/21/20	Sample Time: 15:01 Eastern	Matrix: Water
WGWA-1 (180-111399-7)	Sample Date: 9/22/20	Sample Time: 10:57 Eastern	Matrix: Water
WGWA-5 (180-111399-8)	Sample Date: 9/22/20	Sample Time: 12:20 Eastern	Matrix: Water
WGWA-6 (180-111399-9)	Sample Date: 9/22/20	Sample Time: 10:30 Eastern	Matrix: Water

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 9/25/20 1500
 Relinquished by: *FedEx* Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Special Instructions/OC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
 Method of Shipment: _____
 Received by: *FedEx* Date/Time: _____
 Received by: *[Signature]* Date/Time: 9/26/20 08:20
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PIV: Brown, Shali		Carrier Tracking No(s): 180-412750.2	
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofins.com		Page: Page 2 of 2	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North,		Job #: 180-111399-2	
City: Earth City		State, Zip: MO, 63045		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (Specify) Other:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:		Analysis Requested:	
Email:		WO #:		Total Number of Containers: 1	
Project Name: CCR - Plant Wansley Ash Pond		Project #: 18019922		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
Site: Wansley CCR		SSOW#:		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time	
WGWA-7 (180-111399-10)		9/22/20		14:20 Eastern	
WGWA-18 (180-111399-11)		9/22/20		13:15 Eastern	
WGWC-8 (180-111399-12)		9/22/20		14:30 Eastern	
Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Al)		Sample Type (C=Comp, G=grab)		Preservation Code:	
Water		Water		Water	
Water		Water		Water	
Water		Water		Water	
Radium-228		9320_Ra228/PresSep_0 Radium 228		X	
9315_Ra226/PresSep_21 Radium 226		X		X	
Radium-228		R226Ra228_GFP/Combined Radium-226 and		X	
Special Instructions/Note:		Special Instructions/Note:		Special Instructions/Note:	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: Time: Method of Shipment: Return To Client Disposal By Lab Archive For Months

Relinquished by: Date/Time: Company: Received by: Date/Time: Company: **FedEx** 9/25/20 15W **FedEx** 9/26/20 08:20
 Relinquished by: Date/Time: Company: Received by: Date/Time: Company: **FedEx** 9/26/20 08:20
 Relinquished by: Date/Time: Company: Received by: Date/Time: Company: **FedEx** 9/26/20 08:20

Custody Seals Intact: (Custody Seal No.: Yes No No) Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-111399-2

Login Number: 111399

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?	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: 180-111399-2

Login Number: 111399

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/26/20 11:52 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: 180-111399-2

Login Number: 111526

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: 180-111399-2

Login Number: 111526

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/29/20 02:11 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	



Data Validation Reports

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Wansley Ash Pond

Scan Event February 2020

Georgia Power Company – Plant Wansley Ash Pond

Quality Control Review of Analytical Data – February 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh and St. Louis for groundwater samples collected at Plant Wansley Ash Pond (AP) between February 3, 2020 and February 7, 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 of this Appendix.

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 detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 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 Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were 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.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

U: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Lead and Thallium results in SDG 102004 were qualified as non-detect (U) due to these analytes being detected at similar concentration in the associated blank sample. As shown in Table 2, when the original sample result was below the reporting limit (RL), the method detection limit (MDL) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Wansley AP sampled between February 3, 2020 and February 7, 2020 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, 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

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Wansley Ash Pond

Sample Summary Table – February 2020

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
102004	WGWA-2	2/3/2020	180-102004-1	GW		X	X		X
102004	WGWA-4	2/4/2020	180-102004-2	GW		X	X		X
102004	WGWA-3	2/4/2020	180-102004-3	GW		X	X		X
102004	WGWA-5	2/4/2020	180-102004-4	GW		X	X		X
102004	WGWA-6	2/4/2020	180-102004-5	GW		X	X		X
102004	WGWA-1	2/3/2020	180-102004-6	GW		X	X		X
102004	DUP-1	2/4/2020	180-102004-7	GW	FD (WGWA-3)	X	X		X
102004	FB-1-2-4-20	2/4/2020	180-102004-8	WQ	FB	X	X		X
102004	EB-1-2-4-20	2/4/2020	180-102004-9	WQ	EB	X	X		X
102169	WGWA-7	2/5/2020	180-102169-1	GW		X	X		X
102169	FB-2-2-7-20	2/7/2020	180-102169-2	WQ	FB	X	X		X
102169	DUP-2	2/7/2020	180-102169-3	GW	FD (WGWC-19)	X	X		X
102169	WGWA-18	2/5/2020	180-102169-4	GW		X	X		X
102169	EB-2-2-7-20	2/7/2020	180-102169-5	WQ	EB	X	X		X
102169	WGWC-10	2/5/2020	180-102169-6	GW		X	X		X
102169	WGWC-12	2/5/2020	180-102169-7	GW		X	X		X
102169	WGWC-11	2/5/2020	180-102169-8	GW		X	X		X
102169	WGWC-15	2/7/2020	180-102169-9	GW		X	X		X
102169	WGWC-16	2/7/2020	180-102169-10	GW		X	X		X
102169	WGWC-19	2/7/2020	180-102169-11	GW		X	X		X
102169	WGWC-13	2/5/2020	180-102169-12	GW		X	X		X
102169	WGWC-14A	2/5/2020	180-102169-13	GW		X	X		X
102169	WGWC-9	2/5/2020	180-102169-14	GW		X	X		X
102169	WGWC-8	2/7/2020	180-102169-15	GW		X	X		X
102169	WGWC-17	2/7/2020	180-102169-16	GW		X	X		X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

SW – Surface Water

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Wansley Ash Pond

Qualifier Summary Table – February 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
102004	WGWA-2	Lead		0.00013	U	Blank detection
102004	WGWA-4	Lead		0.00019	U	Blank detection
102004	WGWA-3	Lead		0.00013	U	Blank detection
102004	WGWA-5	Lead		0.00024	U	Blank detection
102004	WGWA-2	Thallium		0.0002	U	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
 U – Non-Detect Result

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Wansley Ash Pond

March 2020

Georgia Power Company – Plant Wansley Ash Pond

Quality Control Review of Analytical Data – March 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh for groundwater samples collected at Plant Wansley Ash Pond (AP) between March 16, 2020 and May 4, 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 of this Appendix. SDGs 180-103742, 180-103809, and 180-105386 were revised by the laboratory to remove a target analyte that was not required for the first semi-annual event. SDG 180-103809 was revised by the laboratory to remove data for WGWC-19 and EB-2-3-10-20 which demonstrated a switching of sample containers; WGWC-19 and an equipment blank were resampled and reported from SDG 180-105386.

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 detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 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 Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met, with the exception of Total Dissolved Solids (TDS) on WGWA-3 (180-103742-3) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

U: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Samples WGWA-3 (180-103742-3) and DUPLICATE 1 (180-103742-10) were qualified as estimated (J) for TDS as the field relative percent difference (RPD) exceeded QC criteria (33.33% above limit of 25).

- Boron results in SDG 103809 were qualified as non-detect (U) due to this analyte being detected at a similar concentration in the associated blank sample. As shown in Table 2, when the original sample result was below the reporting limit (RL), the method detection limit (MDL) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Wansley AP sampled between March 16, 2020 and May 4, 2020 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, 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

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Wansley Ash Pond

Sample Summary Table – March 2020

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
103742	WGWA-1	3/16/2020	180-103742-1	GW		X	X	X	X
103742	WGWA-2	3/16/2020	180-103742-2	GW		X	X	X	X
103742	WGWA-3	3/17/2020	180-103742-3	GW		X	X	X	X
103742	WGWA-4	3/17/2020	180-103742-4	GW		X	X	X	X
103742	WGWA-5	3/17/2020	180-103742-5	GW		X	X	X	X
103742	WGWA-6	3/17/2020	180-103742-6	GW		X	X	X	X
103742	WGWA-7	3/17/2020	180-103742-7	GW		X	X	X	X
103742	WGWA-18	3/17/2020	180-103742-8	GW		X	X	X	X
103742	EB-1 3-17-20	3/17/2020	180-103742-9	WQ	EB	X	X	X	X
103742	DUPLICATE 1 3-17-20	3/17/2020	180-103742-10	GW	FD (WGWA-3)	X	X	X	X
103742	WGWC-11	3/18/2020	180-103742-11	GW		X	X	X	X
103809	WGWC-8	3/19/2020	180-103809-1	GW		X	X	X	X
103809	WGWC-9	3/19/2020	180-103809-2	GW		X	X	X	X
103809	WGWC-10	3/18/2020	180-103809-3	GW		X	X	X	X
103809	WGWC-12	3/18/2020	180-103809-4	GW		X	X	X	X
103809	WGWC-13	3/19/2020	180-103809-5	GW		X	X	X	X
103809	WGWC-14A	3/19/2020	180-103809-6	GW		X	X	X	X
103809	WGWC-15	3/18/2020	180-103809-7	GW		X	X	X	X
103809	WGWC-16	3/18/2020	180-103809-8	GW		X	X	X	X
103809	WGWC-17	3/18/2020	180-103809-9	GW		X	X	X	X
103809	DUPLICATE 2	3/18/2020	180-103809-12	GW	FD (WGWC-19)	X	X	X	X
103809	FB-1 3-18-20	3/18/2020	180-103809-13	WQ	FB	X	X	X	X
103809	FB-2 3-19-20	3/19/2020	180-103809-14	WQ	FB	X	X	X	X
105386	WGWC-19	5/4/2020	180-105386-1	GW		X	X	X	X
105386	EB-1-5-4-2020	5/4/2020	180-105386-2	WQ	EB	X	X	X	X
105386	DUP-1	5/4/2020	180-105386-3	GW	FD (WGWC-19)	X	X	X	X

Abbreviations:

EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 GW – Groundwater
 QC – Quality Control

SW – Surface Water
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Wansley Ash Pond

Qualifier Summary Table – March 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
103809	WGWC-15	Boron		0.071	U	Blank detection
103742	WGWA-3	TDS			J	RPD exceeds field goal
103742	DUPLICATE 1	TDS			J	RPD exceeds field goal

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
 U – Non-Detect Result

Memorandum

Date: December 15, 2020
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job IDs 180-111399-1 and 180-111399-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nineteen aqueous samples, two field duplicates, two equipment blanks and two field blanks, collected 21-24 September 2020, as part of the Plant Wansley AP on-site sampling event.

The samples were analyzed at Eurofins TestAmerica Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Eurofins TestAmerica St. Louis, Missouri, for the following analytical tests:

- Radium-226 by USEPA Method 9315
- Radium-228 by USEPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA 540-R-2017-001); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
180-111399-1	Dup-1
180-111399-2	EB-1-9-22-20
180-111399-3	FB-1-9-22-20
180-111399-4	WGWA-2
180-111399-5	WGWA-4
180-111399-6	WGWA-3
180-111399-7	WGWA-1
180-111399-8	WGWA-5
180-111399-9	WGWA-6
180-111399-10	WGWA-7
180-111399-11	WGWA-18
180-111399-12	WGWC-8
180-111526-1	Dup-2

Laboratory ID	Client ID
180-111526-2	EB-2-9-24-20
180-111526-3	FB-2-9-24-20
180-111526-4	WGWC-17
180-111526-5	WGWC-10
180-111526-6	WGWC-15
180-111526-7	WGWC-16
180-111526-8	WGWC-9
180-111526-9	WGWC-13
180-111526-10	WGWC-14A
180-111526-11	WGWC-19
180-111526-12	WGWC-11
180-111526-13	WGWC-12

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Collection times were not documented on the chain of custody (COC) for field duplicates, Dup-1 and Dup-2. Dup-1 and Dup-2 were logged in with the collection time of 00:00.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3005A/6020B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 332470, 332954 and 332956). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

One sample set specific MS/MSD pair was reported using sample Dup-1. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1-9-22-20 and EB-2-9-24-20. Metals were not detected in the equipment blanks above the MDLs, with the following exceptions.

Beryllium and thallium were detected in EB-1-9-22-20 at estimated concentrations greater than the MDLs and less than the reporting limits (RLs). Since the thallium concentration in EB-1-9-22-20 was U qualified due to field blank contamination, no additional qualifications were applied to the thallium data. However, the estimated beryllium concentrations in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
Dup-1	Beryllium	0.00022	J	0.0025	U	3
WGWC-14A	Beryllium	0.00024	J	0.0025	U	3
WGWC-9	Beryllium	0.00034	J	0.0025	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.7 Field Blank

Two field blanks were collected with the sample set, FB-1-9-22-20 and FB-2-9-24-20. Metals were not detected in the field blanks above the MDLs with the following exception.

Thallium was detected in FB-1-9-22-20 and FB-2-9-24-20 at estimated concentrations greater than the MDL and less than the RL. Therefore, the estimated thallium concentrations in the associated samples were U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
Dup-1	Thallium	0.00026	J	0.0010	U	3
EB-1-9-22-20	Thallium	0.00037	J	0.0010	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

1.8 Field Duplicate

Two field duplicate samples were collected with the sample set, Dup-1 and Dup-2. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-3 and WGWC-19, respectively.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated nondetect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches 332349, 332506, 332507, 332871 and 332971). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of mercury in the LCS in batch 332971 was high and outside the laboratory specified acceptance criteria. Since mercury was not detected in the associated samples, no qualifications were applied to the data.

2.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1-9-22-20 and EB-2-9-24-20. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

Two field blanks were collected with the sample set, FB-1-9-22-20 and FB-2-9-24-20. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

Two field duplicate samples were collected with the sample set, Dup-1 and Dup-2. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-3 and WGWC-19, respectively.

2.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0 and TDS by Standard method 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for anions (batches 332056, 332194 and 332252) and two method blanks were reported for TDS (batches 331211 and 331565). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four sample set specific MS/MSD pairs were reported for the anions using samples Dup-1, WGWA-3, WGWC-8 and WGWC-13. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported for the anions and two LCSs were reported for TDS. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Three sample set specific laboratory duplicates were reported using samples WGWA-5, WGWC-15 and WGWC-16. The RPD results were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1-9-22-20 and EB-2-9-24-20. The wet chemistry parameters were not detected in the equipment blanks above the MDLs.

3.8 Field Blank

Two field blanks were collected with the sample set, FB-1-9-22-20 and FB-2-9-24-20. The wet chemistry parameters were not detected in the field blanks above the MDLs.

3.9 Field Duplicate

Two field duplicate samples were collected with the sample set, Dup-1 and Dup-2. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-3 and WGWC-19, respectively.

3.10 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by USEPA method 9315, radium-228 by USEPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ⊗ Equipment Blank
- ✓ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-226 data (batches 484391, 484404 and 487775). Three method blanks were reported for the radium-228 data (batches 484392, 484405 and 484437). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs), with the following exceptions.

Radium-226 was detected above the MDC in the method blank in batch 484404 (4.451 pCi/L). Since radium-226 was not detected in the associated samples, no qualifications were applied to the data.

Radium-228 was detected above the MDC in the method blank in batch 484392 (0.8933 pCi/L). Therefore, the radium-228 concentrations in the associated samples greater than the MDC and less than the method blank concentration were U qualified as not detected at the reported concentration and the radium-228 concentration in the associated sample greater than the method blank concentration and less than ten times the method blank concentration was J+ qualified as estimated with high biases. In addition, the combined radium concentrations in WGWC-11 and WGWC-13 were J+ qualified as estimated with high biases and the combined radium concentration in WGWC-12 was U qualified as not detected at the reported concentration.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result	Validation Qualifier	Reason Code
WGWC-11	Radium-228	1.14	NA	1.14	J+	3
WGWC-11	Combined Radium	1.20	NA	1.20	J+	3
WGWC-12	Radium-228	0.685	NA	0.685	U	3
WGWC-12	Combined Radium	0.785	NA	0.785	U	3
WGWC-13	Radium-228	0.761	NA	0.761	U	3
WGWC-13	Combined Radium	1.02	NA	1.02	J+	3

pCi/L- picocuries per liter

NA-not applicable

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCS/LCS duplicate (LCSD) pairs were reported for radium-226. Three LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [2 sigma (2σ)] results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of radium-228 in the LCS in batch 484405 was low and outside the laboratory specified acceptance criteria. Since radium-228 was not detected in the associated samples, no qualifications were applied to the data.

4.6 Laboratory Duplicate

Laboratory duplicates were not reported.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1-9-22-20 and EB-2-9-24-20. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs, with the following exceptions.

Radium-226 (1.63 pCi/L) and combined radium (1.78 pCi/L) were detected at concentrations greater than the MDCs in EB-1-9-22-20. Therefore, the radium-228 and combined radium concentrations in the associated samples greater than the MDCs and less than the method blank concentrations were U qualified as not detected at the reported concentrations and the combined radium concentration in the associated sample greater than the method blank concentration and less than ten times the method blank concentration was J+ qualified as estimated with high bias.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWC-8	Radium-226	0.293	NA	0.293	U	3
WGWC-8	Combined Radium	1.75	NA	1.75	U	3
WGWA-4	Combined Radium	1.07	NA	1.07	U	3
WGWA-1	Combined Radium	0.729	NA	0.729	U	3
WGWA-5	Combined Radium	0.954	NA	0.954	U	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWA-6	Radium-226	0.716	NA	0.716	U	3
WGWA-6	Combined Radium	7.65	NA	7.65	J+	3
WGWC-14A	Radium-226	0.308	NA	0.308	U	3
WGWC-14A	Combined Radium	0.796	NA	0.796	U	3
WGWC-19	Radium-226	1.03	NA	1.03	U	3
WGWC-19	Combined Radium	1.18	NA	1.18	U	3
WGWC-11	Combined Radium	1.20	NA	1.20	U	3
WGWC-12	Combined Radium	0.785	NA	0.785	U	3
WGWC-17	Radium-226	0.126	NA	0.126	U	3
WGWC-17	Combined Radium	0.643	NA	0.643	U	3
WGWC-16	Radium-226	0.179	NA	0.179	U	3
WGWC-13	Radium-226	0.259	NA	0.259	U	3
WGWC-13	Combined Radium	1.02	NA	1.02	U	3

pCi/L- picocuries per liter

NA-not applicable

4.9 Field Blank

Two field blanks were collected with the sample set, FB-1-9-22-20 and FB-2-9-24-20. Radium-226 and Radium-228 were not detected in the field blanks above the MDCs.

4.10 Field Duplicate

Two field duplicate samples were collected with the sample set, Dup-1 and Dup-2. Acceptable precision ($RER (2\sigma) < 3$) was demonstrated between the field duplicate and the original sample, WGWA-3 and WGWC-19, respectively.

4.11 Sensitivity

The samples were reported to the MDCs. No elevated nondetect results were reported.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

APPENDIX D2
Field Data Forms

Low-Flow Test Report:

Test Date / Time: 2/3/2020 3:02:21 PM

Project: Plant Wansley AP

Operator Name: Hunter Auld

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 50 ft Top of Screen: 79.6 ft Total Depth: 129.6 ft Initial Depth to Water: 23.35 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 104 ft Estimated Total Volume Pumped: 2.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 0.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1530 on 2-3-20.

Weather Conditions:

Sunny, 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/3/2020 3:02 PM	00:00	5.74 pH	22.09 °C	45.51 µS/cm	3.98 mg/L		146.1 mV	23.35 ft	75.00 ml/min
2/3/2020 3:03 PM	00:40	5.72 pH	21.60 °C	39.43 µS/cm	2.73 mg/L		184.6 mV	23.35 ft	75.00 ml/min
2/3/2020 3:08 PM	05:40	5.61 pH	20.80 °C	32.12 µS/cm	0.44 mg/L	1.10 NTU	113.1 mV	23.40 ft	75.00 ml/min
2/3/2020 3:13 PM	10:40	5.52 pH	20.22 °C	31.82 µS/cm	0.35 mg/L	1.10 NTU	88.9 mV	23.40 ft	75.00 ml/min
2/3/2020 3:18 PM	15:40	5.46 pH	20.47 °C	31.58 µS/cm	0.37 mg/L	0.80 NTU	82.6 mV	23.40 ft	75.00 ml/min
2/3/2020 3:23 PM	20:40	5.41 pH	20.82 °C	31.15 µS/cm	0.51 mg/L	1.00 NTU	77.8 mV	23.40 ft	75.00 ml/min
2/3/2020 3:28 PM	25:40	5.40 pH	20.70 °C	31.11 µS/cm	0.68 mg/L	0.70 NTU	73.0 mV	23.40 ft	75.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/3/2020 2:52:35 PM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.65 ft Total Depth: 102.65 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97.65 ft Estimated Total Volume Pumped: 7.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1318. Clear 72F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/3/2020 2:52 PM	00:00	6.04 pH	17.63 °C	123.86 µS/cm	1.75 mg/L		110.0 mV		130.00 ml/min
2/3/2020 2:53 PM	01:08	6.05 pH	17.57 °C	123.62 µS/cm	1.75 mg/L	0.64 NTU	129.8 mV	8.60 ft	130.00 ml/min
2/3/2020 2:58 PM	06:08	6.07 pH	17.36 °C	123.06 µS/cm	1.56 mg/L	0.64 NTU	79.7 mV	8.70 ft	130.00 ml/min
2/3/2020 3:03 PM	11:08	6.08 pH	17.36 °C	123.69 µS/cm	1.46 mg/L	0.45 NTU	72.2 mV	8.70 ft	130.00 ml/min
2/3/2020 3:08 PM	16:08	6.07 pH	17.45 °C	123.75 µS/cm	1.34 mg/L	0.37 NTU	66.3 mV	8.70 ft	130.00 ml/min
2/3/2020 3:13 PM	21:08	6.08 pH	17.42 °C	124.23 µS/cm	1.24 mg/L	0.45 NTU	63.3 mV	8.70 ft	130.00 ml/min
2/3/2020 3:18 PM	26:08	6.09 pH	17.49 °C	124.73 µS/cm	1.19 mg/L	0.34 NTU	60.1 mV	8.70 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/4/2020 11:16:54 AM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9 ft Total Depth: 19 ft Initial Depth to Water: 2.64 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.96 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Collected at 1142. 63F cloudy.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/4/2020 11:16 AM	00:00	5.69 pH	16.43 °C	33.48 µS/cm	8.14 mg/L		61.4 mV	2.64 ft	300.00 ml/min
2/4/2020 11:21 AM	05:00	5.67 pH	16.46 °C	33.15 µS/cm	7.77 mg/L	0.55 NTU	70.8 mV	3.40 ft	300.00 ml/min
2/4/2020 11:26 AM	10:00	5.65 pH	16.55 °C	33.04 µS/cm	7.53 mg/L	0.49 NTU	78.4 mV	3.60 ft	300.00 ml/min
2/4/2020 11:31 AM	15:00	5.65 pH	16.73 °C	33.15 µS/cm	7.32 mg/L	0.57 NTU	82.7 mV	3.60 ft	300.00 ml/min
2/4/2020 11:36 AM	20:00	5.65 pH	16.87 °C	33.30 µS/cm	7.05 mg/L	0.46 NTU	83.9 mV	3.60 ft	300.00 ml/min
2/4/2020 11:41 AM	25:00	5.66 pH	16.96 °C	33.33 µS/cm	6.93 mg/L	0.64 NTU	83.8 mV	3.60 ft	300.00 ml/min

Samples

Sample ID:	Description:
WGWA-3	@ 1142

Low-Flow Test Report:

Test Date / Time: 2/4/2020 10:18:16 AM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.9 ft Total Depth: 73.9 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 68.9 ft Estimated Total Volume Pumped: 4.01 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Collected at 1045. 60F overcast.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/4/2020 10:18 AM	00:00	8.03 pH	14.62 °C	259.05 µS/cm	5.64 mg/L		180.1 mV		150.00 ml/min
2/4/2020 10:20 AM	02:18	7.30 pH	15.07 °C	159.18 µS/cm	0.52 mg/L		15.7 mV		150.00 ml/min
2/4/2020 10:25 AM	07:18	7.33 pH	15.21 °C	151.70 µS/cm	0.19 mg/L	3.16 NTU	-28.9 mV	4.00 ft	150.00 ml/min
2/4/2020 10:30 AM	12:18	7.32 pH	15.33 °C	149.12 µS/cm	0.17 mg/L	2.20 NTU	-37.1 mV	4.10 ft	150.00 ml/min
2/4/2020 10:35 AM	17:18	7.30 pH	15.43 °C	147.20 µS/cm	0.16 mg/L	1.80 NTU	-38.4 mV	4.10 ft	150.00 ml/min
2/4/2020 10:40 AM	22:18	7.29 pH	15.56 °C	145.54 µS/cm	0.16 mg/L	1.50 NTU	-70.1 mV	4.10 ft	150.00 ml/min
2/4/2020 10:45 AM	27:18	7.29 pH	15.56 °C	145.58 µS/cm	0.16 mg/L	1.64 NTU	-39.1 mV	4.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
WGWA-4	@ 1045

Low-Flow Test Report:

Test Date / Time: 2/4/2020 12:15:19 PM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.6 ft Total Depth: 23.6 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 21.5 ft Estimated Total Volume Pumped: 54.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/4/2020 12:15 PM	00:00	5.54 pH	18.27 °C	30.82 µS/cm	5.83 mg/L		96.0 mV		300.00 ml/min
2/4/2020 12:16 PM	01:39	5.52 pH	17.14 °C	31.42 µS/cm	5.81 mg/L		122.7 mV		300.00 ml/min
2/4/2020 12:21 PM	06:39	5.42 pH	16.42 °C	27.86 µS/cm	5.85 mg/L	8.28 NTU	85.5 mV	11.40 ft	300.00 ml/min
2/4/2020 12:26 PM	11:39	5.35 pH	16.37 °C	24.81 µS/cm	5.97 mg/L	7.62 NTU	86.0 mV	11.60 ft	300.00 ml/min
2/4/2020 12:31 PM	16:39	5.33 pH	16.47 °C	24.26 µS/cm	6.04 mg/L	7.93 NTU	127.0 mV	11.60 ft	300.00 ml/min
2/4/2020 12:36 PM	21:39	5.34 pH	16.48 °C	24.16 µS/cm	6.06 mg/L	9.22 NTU	128.0 mV	11.60 ft	300.00 ml/min
2/4/2020 12:41 PM	26:39	5.33 pH	16.60 °C	23.71 µS/cm	6.00 mg/L	8.60 NTU	128.6 mV	11.60 ft	300.00 ml/min
2/4/2020 12:46 PM	31:39	5.33 pH	16.69 °C	23.69 µS/cm	6.02 mg/L	9.47 NTU	128.6 mV	11.60 ft	300.00 ml/min
2/4/2020 12:51 PM	36:39	5.32 pH	16.65 °C	23.06 µS/cm	5.96 mg/L	9.53 NTU	129.2 mV	11.60 ft	300.00 ml/min
2/4/2020 12:56 PM	41:39	5.34 pH	16.67 °C	24.04 µS/cm	6.12 mg/L	9.42 NTU	127.1 mV	11.60 ft	300.00 ml/min
2/4/2020 1:01 PM	46:39	5.31 pH	16.65 °C	22.38 µS/cm	6.09 mg/L	9.31 NTU	84.2 mV	11.60 ft	300.00 ml/min
2/4/2020 1:06 PM	51:39	5.32 pH	16.68 °C	22.37 µS/cm	5.99 mg/L	10.00 NTU	83.0 mV	11.60 ft	300.00 ml/min
2/4/2020 1:11 PM	56:39	5.30 pH	16.73 °C	22.47 µS/cm	6.12 mg/L	10.00 NTU	83.3 mV	11.60 ft	300.00 ml/min
2/4/2020 1:16 PM	01:01:39	5.30 pH	16.80 °C	22.34 µS/cm	5.96 mg/L	10.00 NTU	127.1 mV	11.60 ft	300.00 ml/min
2/4/2020 1:21 PM	01:06:39	5.30 pH	16.84 °C	21.65 µS/cm	6.14 mg/L	10.20 NTU	83.7 mV	11.60 ft	300.00 ml/min

2/4/2020 1:26 PM	01:11:39	5.30 pH	16.91 °C	21.82 µS/cm	6.10 mg/L	10.20 NTU	83.0 mV	11.60 ft	300.00 ml/min
2/4/2020 1:31 PM	01:16:39	5.34 pH	16.93 °C	23.32 µS/cm	6.27 mg/L	10.20 NTU	83.0 mV	11.60 ft	300.00 ml/min
2/4/2020 1:36 PM	01:21:39	5.29 pH	16.95 °C	20.94 µS/cm	6.20 mg/L	10.30 NTU	83.5 mV	11.60 ft	300.00 ml/min
2/4/2020 1:41 PM	01:26:39	5.29 pH	16.94 °C	21.05 µS/cm	6.23 mg/L	10.10 NTU	83.5 mV	11.60 ft	300.00 ml/min
2/4/2020 1:46 PM	01:31:39	5.29 pH	16.91 °C	21.06 µS/cm	6.09 mg/L	9.93 NTU	83.1 mV	11.60 ft	300.00 ml/min
2/4/2020 1:51 PM	01:36:39	5.30 pH	16.80 °C	20.83 µS/cm	6.25 mg/L	10.50 NTU	82.9 mV	11.60 ft	300.00 ml/min
2/4/2020 1:56 PM	01:41:39	5.29 pH	16.77 °C	20.67 µS/cm	6.25 mg/L	10.00 NTU	83.1 mV	11.60 ft	300.00 ml/min
2/4/2020 2:01 PM	01:46:39	5.30 pH	16.80 °C	20.64 µS/cm	6.40 mg/L	10.50 NTU	83.3 mV	11.60 ft	300.00 ml/min
2/4/2020 2:06 PM	01:51:39	5.29 pH	16.77 °C	20.79 µS/cm	6.47 mg/L	10.30 NTU	83.4 mV	11.60 ft	300.00 ml/min
2/4/2020 2:11 PM	01:56:39	5.29 pH	16.82 °C	20.56 µS/cm	6.50 mg/L	10.10 NTU	83.5 mV	11.60 ft	300.00 ml/min
2/4/2020 2:16 PM	02:01:39	5.29 pH	16.88 °C	20.63 µS/cm	6.38 mg/L	10.20 NTU	83.4 mV	11.60 ft	300.00 ml/min
2/4/2020 2:21 PM	02:06:39	5.29 pH	16.91 °C	20.17 µS/cm	6.40 mg/L	9.49 NTU	82.4 mV	11.60 ft	300.00 ml/min
2/4/2020 2:26 PM	02:11:39	5.30 pH	16.87 °C	19.83 µS/cm	6.38 mg/L	10.30 NTU	82.0 mV	11.60 ft	300.00 ml/min
2/4/2020 2:31 PM	02:16:39	5.30 pH	16.83 °C	19.63 µS/cm	6.36 mg/L	10.10 NTU	81.8 mV	11.60 ft	300.00 ml/min
2/4/2020 2:36 PM	02:21:39	5.31 pH	16.87 °C	19.45 µS/cm	6.44 mg/L	10.10 NTU	129.1 mV	11.60 ft	300.00 ml/min
2/4/2020 2:41 PM	02:26:39	5.31 pH	16.85 °C	19.13 µS/cm	6.44 mg/L	9.92 NTU	83.2 mV	11.60 ft	300.00 ml/min
2/4/2020 2:46 PM	02:31:39	5.31 pH	16.82 °C	19.10 µS/cm	6.41 mg/L	9.82 NTU	82.3 mV	11.60 ft	300.00 ml/min
2/4/2020 2:51 PM	02:36:39	5.31 pH	16.79 °C	18.88 µS/cm	6.36 mg/L	10.00 NTU	82.3 mV	11.60 ft	300.00 ml/min
2/4/2020 2:56 PM	02:41:39	5.31 pH	16.90 °C	18.71 µS/cm	6.30 mg/L	9.94 NTU	81.4 mV	11.60 ft	300.00 ml/min
2/4/2020 3:01 PM	02:46:39	5.31 pH	16.91 °C	18.96 µS/cm	6.48 mg/L	10.00 NTU	81.2 mV	11.60 ft	300.00 ml/min
2/4/2020 3:06 PM	02:51:39	5.31 pH	16.83 °C	19.86 µS/cm	6.19 mg/L	10.00 NTU	82.5 mV	11.60 ft	300.00 ml/min
2/4/2020 3:11 PM	02:56:39	5.31 pH	16.89 °C	19.75 µS/cm	6.49 mg/L	9.83 NTU	82.6 mV	11.60 ft	300.00 ml/min
2/4/2020 3:16 PM	03:01:39	5.31 pH	16.82 °C	19.68 µS/cm	6.46 mg/L	9.90 NTU	82.3 mV	11.60 ft	300.00 ml/min

Samples

Sample ID:	Description:
WGWA-5	Collect at 1517. 69F cloudy.

Low-Flow Test Report:

Test Date / Time: 2/4/2020 2:26:41 PM

Project: Plant Wansley AP

Operator Name: Hunter Auld

Location Name: WGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 50 ft Top of Screen: 54.5 ft Total Depth: 104.5 ft Initial Depth to Water: 12.9 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 79.5 ft Estimated Total Volume Pumped: 5.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.9 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1455 on 2-4-20.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/4/2020 2:26 PM	00:00	7.68 pH	18.17 °C	153.78 µS/cm	0.38 mg/L		85.6 mV	12.90 ft	100.00 ml/min
2/4/2020 2:27 PM	00:51	7.67 pH	17.90 °C	152.09 µS/cm	0.28 mg/L		86.6 mV	12.90 ft	100.00 ml/min
2/4/2020 2:32 PM	05:51	7.66 pH	17.57 °C	151.80 µS/cm	0.21 mg/L	0.70 NTU	45.8 mV	13.80 ft	100.00 ml/min
2/4/2020 2:37 PM	10:51	7.68 pH	17.55 °C	152.23 µS/cm	0.21 mg/L	0.80 NTU	15.5 mV	13.80 ft	100.00 ml/min
2/4/2020 2:42 PM	15:51	7.69 pH	17.46 °C	152.62 µS/cm	0.22 mg/L	0.80 NTU	-10.6 mV	13.80 ft	100.00 ml/min
2/4/2020 2:47 PM	20:51	7.71 pH	17.41 °C	152.44 µS/cm	0.23 mg/L	0.80 NTU	-17.5 mV	13.80 ft	100.00 ml/min
2/4/2020 2:52 PM	25:51	7.74 pH	17.41 °C	152.40 µS/cm	0.23 mg/L	0.60 NTU	-19.5 mV	13.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/5/2020 12:01:37 PM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34.6 ft Estimated Total Volume Pumped: 3.86 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/5/2020 12:01 PM	00:00	5.55 pH	17.63 °C	22.95 µS/cm	7.88 mg/L		135.4 mV		125.00 ml/min
2/5/2020 12:02 PM	01:22	5.54 pH	17.27 °C	22.74 µS/cm	7.88 mg/L	2.11 NTU	162.0 mV	22.40 ft	125.00 ml/min
2/5/2020 12:07 PM	06:22	5.54 pH	16.96 °C	22.07 µS/cm	9.08 mg/L	0.56 NTU	97.8 mV	22.40 ft	125.00 ml/min
2/5/2020 12:12 PM	11:22	5.54 pH	16.93 °C	22.40 µS/cm	8.97 mg/L	0.75 NTU	95.8 mV	22.40 ft	125.00 ml/min
2/5/2020 12:17 PM	16:22	5.52 pH	16.91 °C	22.23 µS/cm	9.28 mg/L	0.55 NTU	95.1 mV	22.40 ft	125.00 ml/min
2/5/2020 12:22 PM	21:22	5.53 pH	16.92 °C	22.14 µS/cm	9.06 mg/L	0.63 NTU	94.3 mV	22.40 ft	125.00 ml/min
2/5/2020 12:27 PM	26:22	5.53 pH	16.91 °C	21.99 µS/cm	9.13 mg/L	0.26 NTU	93.7 mV	22.40 ft	125.00 ml/min
2/5/2020 12:32 PM	31:22	5.54 pH	16.91 °C	22.32 µS/cm	8.93 mg/L	0.63 NTU	92.2 mV	22.40 ft	125.00 ml/min

Samples

Sample ID:	Description:
WGWA-7	Collected at 1233. 65F overcast.

Low-Flow Test Report:

Test Date / Time: 2/5/2020 11:05:44 AM

Project: Plant Wansley AP

Operator Name: Hunter Auld

Location Name: WGWA-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30 ft Total Depth: 40 ft Initial Depth to Water: 18.04 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 21.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1205 on 2-5-20.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/5/2020 11:05 AM	00:00	7.99 pH	16.95 °C	133.14 µS/cm	1.76 mg/L		84.8 mV	18.04 ft	100.00 ml/min
2/5/2020 11:10 AM	05:00	8.07 pH	16.72 °C	129.05 µS/cm	0.79 mg/L	1.20 NTU	64.8 mV	19.00 ft	100.00 ml/min
2/5/2020 11:15 AM	10:00	8.28 pH	16.52 °C	131.07 µS/cm	0.46 mg/L	1.30 NTU	43.1 mV	19.10 ft	100.00 ml/min
2/5/2020 11:20 AM	15:00	8.31 pH	16.52 °C	131.24 µS/cm	0.36 mg/L	0.90 NTU	29.2 mV	19.20 ft	100.00 ml/min
2/5/2020 11:25 AM	20:00	8.08 pH	16.56 °C	130.68 µS/cm	0.37 mg/L	0.60 NTU	21.8 mV	19.20 ft	100.00 ml/min
2/5/2020 11:30 AM	25:00	7.61 pH	16.56 °C	129.18 µS/cm	0.37 mg/L	1.20 NTU	18.1 mV	19.25 ft	100.00 ml/min
2/5/2020 11:35 AM	30:00	7.16 pH	16.61 °C	125.22 µS/cm	0.45 mg/L	0.60 NTU	16.5 mV	19.30 ft	100.00 ml/min
2/5/2020 11:40 AM	35:00	6.97 pH	16.66 °C	121.42 µS/cm	0.69 mg/L	0.60 NTU	17.9 mV	19.40 ft	100.00 ml/min
2/5/2020 11:45 AM	40:00	6.87 pH	16.67 °C	120.25 µS/cm	0.61 mg/L	0.60 NTU	18.9 mV	19.50 ft	100.00 ml/min
2/5/2020 11:50 AM	45:00	6.82 pH	16.70 °C	118.91 µS/cm	0.45 mg/L	0.60 NTU	19.8 mV	19.60 ft	100.00 ml/min
2/5/2020 11:55 AM	50:00	6.77 pH	16.70 °C	116.72 µS/cm	0.37 mg/L	0.70 NTU	20.8 mV	19.70 ft	100.00 ml/min
2/5/2020 12:00 PM	55:00	6.73 pH	16.73 °C	114.62 µS/cm	0.36 mg/L	0.60 NTU	21.5 mV	19.80 ft	100.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/7/2020 10:02:43 AM

Project: Plant Wansley AP

Operator Name: Hunter Auld

Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.4 ft Total Depth: 59.4 ft Initial Depth to Water: 1.13 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 11.64 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1035 on 2-7-20.

Weather Conditions:

Cloudy, 30s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/7/2020 10:02 AM	00:00	5.46 pH	8.43 °C	657.32 µS/cm	4.14 mg/L		162.3 mV	1.13 ft	100.00 ml/min
2/7/2020 10:07 AM	05:00	5.41 pH	9.80 °C	614.54 µS/cm	1.43 mg/L	1.10 NTU	147.1 mV	1.80 ft	100.00 ml/min
2/7/2020 10:12 AM	10:00	5.40 pH	9.75 °C	617.40 µS/cm	1.79 mg/L	0.80 NTU	174.2 mV	1.80 ft	100.00 ml/min
2/7/2020 10:14 AM	11:24	5.39 pH	9.84 °C	620.56 µS/cm	1.77 mg/L	0.80 NTU	141.9 mV	1.80 ft	100.00 ml/min
2/7/2020 10:15 AM	12:44	5.39 pH	9.96 °C	624.96 µS/cm	1.78 mg/L	0.80 NTU	139.9 mV	1.80 ft	100.00 ml/min
2/7/2020 10:20 AM	17:44	5.38 pH	10.58 °C	631.94 µS/cm	1.67 mg/L	1.10 NTU	160.6 mV	1.90 ft	100.00 ml/min
2/7/2020 10:25 AM	22:44	5.37 pH	10.78 °C	636.31 µS/cm	1.59 mg/L	1.25 NTU	133.9 mV	2.00 ft	100.00 ml/min
2/7/2020 10:30 AM	27:44	5.38 pH	10.99 °C	634.84 µS/cm	1.59 mg/L	1.20 NTU	131.0 mV	2.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/5/2020 3:13:50 PM

Project: Plant Wansley AP

Operator Name: Hunter Auld

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.42 ft Total Depth: 61.42 ft Initial Depth to Water: 18.15 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 30.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1600 on 2-5-20.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/5/2020 3:13 PM	00:00	5.88 pH	19.77 °C	0.00 µS/cm	8.76 mg/L		137.5 mV	18.15 ft	100.00 ml/min
2/5/2020 3:18 PM	05:00	6.71 pH	19.17 °C	137.86 µS/cm	7.17 mg/L	1.00 NTU	107.6 mV	19.60 ft	100.00 ml/min
2/5/2020 3:21 PM	07:25	6.70 pH	19.10 °C	139.18 µS/cm	6.89 mg/L	1.00 NTU	107.5 mV	19.60 ft	100.00 ml/min
2/5/2020 3:26 PM	12:25	6.63 pH	19.02 °C	138.60 µS/cm	5.91 mg/L	1.30 NTU	103.1 mV	20.10 ft	100.00 ml/min
2/5/2020 3:31 PM	17:25	6.60 pH	18.98 °C	138.01 µS/cm	5.64 mg/L	1.00 NTU	100.5 mV	20.20 ft	100.00 ml/min
2/5/2020 3:36 PM	22:25	6.59 pH	18.97 °C	137.75 µS/cm	5.43 mg/L	1.10 NTU	98.7 mV	20.30 ft	100.00 ml/min
2/5/2020 3:41 PM	27:25	6.54 pH	18.96 °C	138.48 µS/cm	4.96 mg/L	1.10 NTU	94.6 mV	20.40 ft	100.00 ml/min
2/5/2020 3:46 PM	32:25	6.53 pH	18.91 °C	137.65 µS/cm	4.49 mg/L	1.00 NTU	94.9 mV	20.50 ft	100.00 ml/min
2/5/2020 3:51 PM	37:25	6.55 pH	18.95 °C	136.36 µS/cm	4.54 mg/L	1.40 NTU	94.2 mV	20.60 ft	100.00 ml/min
2/5/2020 3:56 PM	42:25	6.54 pH	18.97 °C	136.12 µS/cm	4.51 mg/L	1.20 NTU	93.4 mV	20.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/5/2020 10:52:08 AM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138.95 ft Total Depth: 148.95 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 143.95 ft Estimated Total Volume Pumped: 3.62 liter Flow Cell Volume: 90 ml Final Flow Rate: 115 ml/min Final Draw Down: 29 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/5/2020 10:52 AM	00:00	6.81 pH	17.21 °C	187.47 µS/cm	6.51 mg/L		174.0 mV		115.00 ml/min
2/5/2020 10:53 AM	01:44	6.43 pH	17.08 °C	127.61 µS/cm	5.26 mg/L		201.3 mV		115.00 ml/min
2/5/2020 10:58 AM	06:44	6.42 pH	16.72 °C	76.98 µS/cm	5.04 mg/L	7.30 NTU	138.0 mV	17.10 ft	115.00 ml/min
2/5/2020 11:03 AM	11:44	6.42 pH	16.64 °C	72.62 µS/cm	5.02 mg/L	4.47 NTU	116.1 mV	17.20 ft	115.00 ml/min
2/5/2020 11:08 AM	16:44	6.42 pH	16.64 °C	71.74 µS/cm	5.00 mg/L	3.47 NTU	98.1 mV	17.30 ft	115.00 ml/min
2/5/2020 11:13 AM	21:44	6.42 pH	16.63 °C	71.88 µS/cm	4.99 mg/L	3.98 NTU	87.7 mV	17.40 ft	115.00 ml/min
2/5/2020 11:18 AM	26:44	6.41 pH	16.64 °C	71.65 µS/cm	4.95 mg/L	2.35 NTU	84.4 mV	17.40 ft	115.00 ml/min
2/5/2020 11:23 AM	31:44	6.42 pH	16.69 °C	71.70 µS/cm	4.93 mg/L	2.15 NTU	81.5 mV	17.40 ft	115.00 ml/min

Samples

Sample ID:	Description:
WGWC-10	Collected at 1124. 63F overcast.

Low-Flow Test Report:

Test Date / Time: 2/5/2020 2:37:48 PM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.5 ft Total Depth: 49.5 ft Initial Depth to Water: 17.6 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44.5 ft Estimated Total Volume Pumped: 4.50 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 48 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/5/2020 2:37 PM	00:00	5.87 pH	17.18 °C	36.13 µS/cm	7.19 mg/L		99.0 mV	17.60 ft	150.00 ml/min
2/5/2020 2:42 PM	05:00	5.84 pH	17.12 °C	35.43 µS/cm	6.80 mg/L	2.48 NTU	93.0 mV	24.60 ft	150.00 ml/min
2/5/2020 2:47 PM	10:00	5.85 pH	17.31 °C	36.71 µS/cm	6.90 mg/L	1.59 NTU	92.0 mV	22.50 ft	150.00 ml/min
2/5/2020 2:52 PM	15:00	5.87 pH	17.36 °C	37.55 µS/cm	6.94 mg/L	1.08 NTU	90.7 mV	22.10 ft	150.00 ml/min
2/5/2020 2:57 PM	20:00	5.88 pH	17.35 °C	37.99 µS/cm	6.89 mg/L	1.54 NTU	89.0 mV	21.80 ft	150.00 ml/min
2/5/2020 3:02 PM	25:00	5.88 pH	17.27 °C	38.40 µS/cm	6.87 mg/L	0.66 NTU	89.1 mV	21.70 ft	150.00 ml/min
2/5/2020 3:07 PM	30:00	5.89 pH	17.22 °C	38.60 µS/cm	6.87 mg/L	2.00 NTU	88.2 mV	21.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
WGWC-11	Collected at 1507. 69F overcast.

Low-Flow Test Report:

Test Date / Time: 2/5/2020 1:10:22 PM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.57 ft Total Depth: 76.57 ft Initial Depth to Water: 17.29 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71.57 ft Estimated Total Volume Pumped: 9.93 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/5/2020 1:10 PM	00:00	6.53 pH	17.51 °C	115.51 µS/cm	6.96 mg/L		61.7 mV	17.29 ft	150.00 ml/min
2/5/2020 1:11 PM	01:11	6.57 pH	17.45 °C	119.17 µS/cm	4.96 mg/L		22.5 mV	17.29 ft	150.00 ml/min
2/5/2020 1:16 PM	06:11	6.62 pH	17.56 °C	106.46 µS/cm	5.80 mg/L	594.00 NTU	26.3 mV	17.50 ft	150.00 ml/min
2/5/2020 1:21 PM	11:11	6.62 pH	17.57 °C	104.51 µS/cm	3.29 mg/L	321.00 NTU	28.8 mV	17.50 ft	150.00 ml/min
2/5/2020 1:26 PM	16:11	6.64 pH	17.63 °C	107.04 µS/cm	3.86 mg/L	173.00 NTU	27.7 mV	17.50 ft	150.00 ml/min
2/5/2020 1:31 PM	21:11	6.67 pH	17.62 °C	106.54 µS/cm	3.76 mg/L	81.70 NTU	26.3 mV	17.60 ft	150.00 ml/min
2/5/2020 1:36 PM	26:11	6.71 pH	17.46 °C	104.82 µS/cm	3.22 mg/L	28.80 NTU	23.9 mV	17.70 ft	150.00 ml/min
2/5/2020 1:41 PM	31:11	6.72 pH	17.49 °C	108.10 µS/cm	3.63 mg/L	27.30 NTU	24.0 mV	17.70 ft	150.00 ml/min
2/5/2020 1:46 PM	36:11	6.75 pH	17.58 °C	106.96 µS/cm	3.83 mg/L	18.30 NTU	23.4 mV	17.70 ft	150.00 ml/min
2/5/2020 1:51 PM	41:11	6.76 pH	17.54 °C	110.49 µS/cm	3.65 mg/L	14.10 NTU	23.0 mV	17.70 ft	150.00 ml/min
2/5/2020 1:56 PM	46:11	6.76 pH	17.49 °C	109.64 µS/cm	3.30 mg/L	11.50 NTU	23.0 mV	17.70 ft	150.00 ml/min
2/5/2020 2:01 PM	51:11	6.76 pH	17.40 °C	109.47 µS/cm	3.14 mg/L	9.60 NTU	23.2 mV	17.70 ft	150.00 ml/min
2/5/2020 2:06 PM	56:11	6.76 pH	17.44 °C	108.79 µS/cm	3.04 mg/L	9.07 NTU	24.8 mV	17.70 ft	150.00 ml/min
2/5/2020 2:11 PM	01:01:11	6.76 pH	17.48 °C	108.46 µS/cm	2.82 mg/L	8.76 NTU	24.9 mV	17.70 ft	150.00 ml/min
2/5/2020 2:16 PM	01:06:11	6.76 pH	17.45 °C	107.23 µS/cm	2.70 mg/L	4.82 NTU	24.8 mV	17.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
WGWC-12	Collected at 1416. 68F overcast.

Low-Flow Test Report:

Test Date / Time: 2/5/2020 12:45:45 PM

Project: Plant Wansley AP

Operator Name: Hunter Auld

Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.55 ft Total Depth: 95.55 ft Initial Depth to Water: 16.97 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 23.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1335 on 2-5-20.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/5/2020 12:45 PM	00:00	6.96 pH	16.61 °C	77.96 µS/cm	8.71 mg/L		18.5 mV	16.97 ft	100.00 ml/min
2/5/2020 12:50 PM	05:00	6.56 pH	16.81 °C	76.79 µS/cm	3.73 mg/L	3.00 NTU	16.4 mV	17.80 ft	100.00 ml/min
2/5/2020 12:55 PM	10:00	6.51 pH	17.01 °C	71.79 µS/cm	3.73 mg/L	5.70 NTU	17.1 mV	18.00 ft	100.00 ml/min
2/5/2020 1:00 PM	15:00	6.47 pH	17.07 °C	66.16 µS/cm	2.94 mg/L	6.50 NTU	23.0 mV	18.40 ft	100.00 ml/min
2/5/2020 1:05 PM	20:00	6.45 pH	17.19 °C	65.19 µS/cm	3.33 mg/L	5.30 NTU	29.0 mV	18.50 ft	100.00 ml/min
2/5/2020 1:10 PM	25:00	6.45 pH	17.22 °C	64.91 µS/cm	2.12 mg/L	5.50 NTU	36.1 mV	18.60 ft	100.00 ml/min
2/5/2020 1:15 PM	30:00	6.45 pH	17.30 °C	64.86 µS/cm	1.89 mg/L	5.70 NTU	42.1 mV	18.70 ft	100.00 ml/min
2/5/2020 1:20 PM	35:00	6.43 pH	17.34 °C	64.65 µS/cm	2.01 mg/L	5.70 NTU	47.5 mV	18.80 ft	100.00 ml/min
2/5/2020 1:25 PM	40:00	6.45 pH	17.37 °C	65.38 µS/cm	1.81 mg/L	5.20 NTU	55.2 mV	18.85 ft	100.00 ml/min
2/5/2020 1:30 PM	45:00	6.44 pH	17.35 °C	65.10 µS/cm	2.00 mg/L	4.90 NTU	59.5 mV	18.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/5/2020 1:58:48 PM

Project: Plant Wansley AP

Operator Name: Hunter Auld

Location Name: WGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.08 ft Total Depth: 43.08 ft Initial Depth to Water: 15.4 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 5.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 22.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1440 on 2-5-20.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/5/2020 1:58 PM	00:00	5.64 pH	18.13 °C	26.54 µS/cm	4.64 mg/L	1.50 NTU	89.9 mV	15.40 ft	125.00 ml/min
2/5/2020 2:03 PM	05:00	5.46 pH	17.77 °C	25.24 µS/cm	1.50 mg/L	1.50 NTU	109.9 mV	16.60 ft	125.00 ml/min
2/5/2020 2:08 PM	10:00	5.42 pH	17.77 °C	25.09 µS/cm	0.92 mg/L	1.40 NTU	121.5 mV	16.70 ft	125.00 ml/min
2/5/2020 2:13 PM	15:00	5.41 pH	17.78 °C	25.04 µS/cm	0.60 mg/L	1.20 NTU	126.6 mV	16.80 ft	125.00 ml/min
2/5/2020 2:18 PM	20:00	5.45 pH	17.73 °C	26.02 µS/cm	0.71 mg/L	0.90 NTU	129.1 mV	16.90 ft	125.00 ml/min
2/5/2020 2:23 PM	25:00	5.50 pH	17.69 °C	29.86 µS/cm	0.59 mg/L	0.90 NTU	128.7 mV	17.00 ft	125.00 ml/min
2/5/2020 2:28 PM	30:00	5.53 pH	17.64 °C	31.80 µS/cm	0.49 mg/L	1.00 NTU	123.8 mV	17.10 ft	125.00 ml/min
2/5/2020 2:33 PM	35:00	5.52 pH	17.64 °C	31.72 µS/cm	0.31 mg/L	1.10 NTU	121.8 mV	17.20 ft	125.00 ml/min
2/5/2020 2:38 PM	40:00	5.52 pH	17.60 °C	32.12 µS/cm	0.23 mg/L	1.10 NTU	120.3 mV	17.25 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/7/2020 10:03:01 AM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.36 ft Total Depth: 53.36 ft Initial Depth to Water: 17.5 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48.36 ft Estimated Total Volume Pumped: 2.80 liter Flow Cell Volume: 90 ml Final Flow Rate: 80 ml/min Final Draw Down: 60 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/7/2020 10:03 AM	00:00	7.63 pH	10.07 °C	256.27 µS/cm	3.59 mg/L		128.1 mV	17.50 ft	80.00 ml/min
2/7/2020 10:08 AM	05:00	7.63 pH	11.29 °C	245.27 µS/cm	3.16 mg/L	0.59 NTU	65.3 mV	20.90 ft	80.00 ml/min
2/7/2020 10:13 AM	10:00	7.63 pH	11.15 °C	240.61 µS/cm	3.14 mg/L	0.58 NTU	53.0 mV	21.40 ft	80.00 ml/min
2/7/2020 10:18 AM	15:00	7.64 pH	11.24 °C	239.49 µS/cm	3.10 mg/L	0.58 NTU	46.4 mV	21.80 ft	80.00 ml/min
2/7/2020 10:23 AM	20:00	7.64 pH	11.56 °C	240.03 µS/cm	3.09 mg/L	0.57 NTU	42.3 mV	22.10 ft	80.00 ml/min
2/7/2020 10:28 AM	25:00	7.65 pH	11.47 °C	236.27 µS/cm	3.02 mg/L	0.60 NTU	45.8 mV	22.30 ft	80.00 ml/min
2/7/2020 10:33 AM	30:00	7.65 pH	11.93 °C	239.16 µS/cm	3.04 mg/L	0.59 NTU	42.0 mV	22.40 ft	80.00 ml/min
2/7/2020 10:38 AM	35:00	7.66 pH	11.60 °C	238.75 µS/cm	3.00 mg/L	0.60 NTU	34.1 mV	22.50 ft	80.00 ml/min

Samples

Sample ID:	Description:
WGWC-15	Called at 1038. 38F cloudy.

Low-Flow Test Report:

Test Date / Time: 2/7/2020 10:56:42 AM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.78 ft Total Depth: 34.78 ft Initial Depth to Water: 34.78 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 29.78 ft Estimated Total Volume Pumped: 4.11 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Starting WL 16.41

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/7/2020 10:56 AM	00:00	5.58 pH	11.10 °C	621.69 µS/cm	6.12 mg/L		81.4 mV	16.41 ft	130.00 ml/min
2/7/2020 11:01 AM	05:00	5.17 pH	15.21 °C	509.55 µS/cm	5.45 mg/L		102.5 mV	16.50 ft	130.00 ml/min
2/7/2020 11:03 AM	06:18	5.16 pH	15.31 °C	509.62 µS/cm	5.35 mg/L	0.78 NTU	147.9 mV	16.50 ft	130.00 ml/min
2/7/2020 11:03 AM	07:05	5.16 pH	15.34 °C	504.87 µS/cm	5.32 mg/L	0.77 NTU	110.3 mV	16.50 ft	130.00 ml/min
2/7/2020 11:08 AM	12:05	5.16 pH	15.27 °C	500.11 µS/cm	5.19 mg/L	0.50 NTU	105.7 mV	16.50 ft	130.00 ml/min
2/7/2020 11:13 AM	17:05	5.16 pH	15.16 °C	500.65 µS/cm	5.22 mg/L	0.41 NTU	101.4 mV	16.50 ft	130.00 ml/min
2/7/2020 11:18 AM	22:05	5.16 pH	15.34 °C	501.37 µS/cm	5.30 mg/L	0.52 NTU	148.8 mV	16.50 ft	130.00 ml/min
2/7/2020 11:23 AM	27:05	5.17 pH	15.31 °C	498.63 µS/cm	5.28 mg/L	0.43 NTU	148.3 mV	16.50 ft	130.00 ml/min
2/7/2020 11:28 AM	31:37	5.17 pH	15.43 °C	491.79 µS/cm	5.34 mg/L	0.91 NTU	102.9 mV	16.50 ft	130.00 ml/min

Samples

Sample ID:	Description:
WGWC-16	Collected at 1128. 38F cloudy.

Low-Flow Test Report:

Test Date / Time: 2/7/2020 11:30:31 AM

Project: Plant Wansley AP

Operator Name: Hunter Auld

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.94 ft Total Depth: 95.94 ft Initial Depth to Water: 27.52 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 7.50 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 14.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1220 on 2-7-20.

Weather Conditions:

Cloudy, 30s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/7/2020 11:30 AM	00:00	6.34 pH	12.72 °C	87.39 µS/cm	2.95 mg/L		71.5 mV	27.52 ft	150.00 ml/min
2/7/2020 11:35 AM	05:00	6.30 pH	14.33 °C	83.22 µS/cm	1.63 mg/L	4.10 NTU	61.5 mV	28.60 ft	150.00 ml/min
2/7/2020 11:40 AM	10:00	6.30 pH	14.32 °C	85.60 µS/cm	1.23 mg/L	5.90 NTU	58.7 mV	28.60 ft	150.00 ml/min
2/7/2020 11:45 AM	15:00	6.32 pH	14.46 °C	86.07 µS/cm	1.33 mg/L	4.20 NTU	54.2 mV	28.60 ft	150.00 ml/min
2/7/2020 11:50 AM	20:00	6.32 pH	14.43 °C	86.79 µS/cm	2.23 mg/L	2.80 NTU	50.3 mV	28.70 ft	150.00 ml/min
2/7/2020 11:55 AM	25:00	6.32 pH	14.70 °C	88.24 µS/cm	1.43 mg/L	2.70 NTU	46.5 mV	28.70 ft	150.00 ml/min
2/7/2020 12:00 PM	30:00	6.32 pH	14.68 °C	89.69 µS/cm	0.71 mg/L	2.60 NTU	43.9 mV	28.70 ft	150.00 ml/min
2/7/2020 12:05 PM	35:00	6.33 pH	14.76 °C	89.78 µS/cm	0.19 mg/L	2.40 NTU	41.1 mV	28.70 ft	150.00 ml/min
2/7/2020 12:10 PM	40:00	6.34 pH	14.76 °C	90.64 µS/cm	0.24 mg/L	1.80 NTU	38.4 mV	28.70 ft	150.00 ml/min
2/7/2020 12:15 PM	45:00	6.34 pH	14.68 °C	92.48 µS/cm	0.20 mg/L	2.30 NTU	36.1 mV	28.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/7/2020 11:48:44 AM

Project: Plant Wansley AP

Operator Name: Owens Fuquea

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84.84 ft Total Depth: 94.84 ft Initial Depth to Water: 18.32 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 89.4 ft Estimated Total Volume Pumped: 6.00 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
2/7/2020 11:48 AM	00:00	6.76 pH	13.30 °C	143.30 µS/cm	1.22 mg/L		6.1 mV	18.32 ft	200.00 ml/min
2/7/2020 11:53 AM	05:00	6.93 pH	14.35 °C	167.74 µS/cm	0.23 mg/L	0.80 NTU	5.3 mV	18.70 ft	200.00 ml/min
2/7/2020 11:58 AM	10:00	6.95 pH	14.69 °C	171.33 µS/cm	0.17 mg/L	0.78 NTU	15.3 mV	18.70 ft	200.00 ml/min
2/7/2020 12:03 PM	15:00	6.99 pH	14.53 °C	173.79 µS/cm	0.14 mg/L	1.47 NTU	15.6 mV	18.80 ft	200.00 ml/min
2/7/2020 12:08 PM	20:00	7.03 pH	14.67 °C	179.73 µS/cm	0.14 mg/L	1.08 NTU	16.8 mV	18.80 ft	200.00 ml/min
2/7/2020 12:13 PM	25:00	7.06 pH	14.56 °C	184.47 µS/cm	0.15 mg/L	1.11 NTU	15.5 mV	18.80 ft	200.00 ml/min
2/7/2020 12:18 PM	30:00	7.08 pH	14.53 °C	187.43 µS/cm	0.16 mg/L	0.98 NTU	15.3 mV	18.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
WGWC-19	Collected at 1220. 38F cloudy.

Low-Flow Test Report:

Test Date / Time: 3/16/2020 1:21:25 PM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWA-1 Well Diameter: 2 cm Casing Type: PVC Screen Length: 50 ft Top of Screen: 79 ft Total Depth: 129.6 ft Initial Depth to Water: 19.49 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 105 ft Estimated Total Volume Pumped: 0.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 14:15

Weather: cloudy 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/16/2020 1:21 PM	00:00	6.01 pH	14.67 °C	34.58 µS/cm	7.92 mg/L		98.2 mV	19.49 ft	75.00 ml/min
3/16/2020 1:26 PM	05:00	5.86 pH	15.11 °C	35.51 µS/cm	1.28 mg/L	0.60 NTU	98.9 mV	19.60 ft	75.00 ml/min
3/16/2020 1:31 PM	10:00	5.81 pH	15.57 °C	35.07 µS/cm	0.84 mg/L	0.60 NTU	99.8 mV	19.60 ft	75.00 ml/min
3/16/2020 1:36 PM	15:00	5.80 pH	15.74 °C	35.14 µS/cm	0.96 mg/L	0.70 NTU	99.2 mV	19.60 ft	75.00 ml/min
3/16/2020 1:41 PM	20:00	5.72 pH	15.42 °C	34.58 µS/cm	1.21 mg/L	0.70 NTU	96.1 mV	19.60 ft	75.00 ml/min
3/16/2020 1:46 PM	25:00	5.58 pH	15.58 °C	35.19 µS/cm	1.55 mg/L	0.70 NTU	94.9 mV	19.60 ft	75.00 ml/min
3/16/2020 1:51 PM	30:00	5.50 pH	15.98 °C	35.40 µS/cm	2.14 mg/L	0.60 NTU	93.8 mV	19.60 ft	75.00 ml/min
3/16/2020 1:56 PM	35:00	5.43 pH	16.15 °C	35.43 µS/cm	2.29 mg/L	0.50 NTU	93.6 mV	19.60 ft	75.00 ml/min
3/16/2020 2:01 PM	40:00	5.37 pH	16.25 °C	35.39 µS/cm	2.28 mg/L	0.40 NTU	92.3 mV	19.60 ft	75.00 ml/min
3/16/2020 2:06 PM	45:00	5.32 pH	16.19 °C	35.33 µS/cm	2.22 mg/L	0.40 NTU	92.4 mV	19.60 ft	75.00 ml/min
3/16/2020 2:11 PM	50:00	5.29 pH	16.31 °C	35.42 µS/cm	2.14 mg/L	0.40 NTU	91.5 mV	19.60 ft	75.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/16/2020 11:47:23 AM

Project: Plant Wansley AP

Operator Name: Anna

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.7 ft Total Depth: 102.65 ft Initial Depth to Water: 7.88 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 3.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 2.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 12:25

Weather: Cloudy 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/16/2020 11:47 AM	00:00	6.38 pH	15.50 °C	134.31 µS/cm	3.59 mg/L		108.9 mV	7.88 ft	125.00 ml/min
3/16/2020 11:52 AM	05:00	6.05 pH	15.31 °C	127.35 µS/cm	1.11 mg/L	0.40 NTU	99.4 mV	8.10 ft	125.00 ml/min
3/16/2020 11:57 AM	10:00	6.02 pH	14.95 °C	125.46 µS/cm	1.04 mg/L	0.40 NTU	99.3 mV	8.10 ft	125.00 ml/min
3/16/2020 12:02 PM	15:00	6.01 pH	14.85 °C	123.14 µS/cm	0.80 mg/L	0.50 NTU	98.2 mV	8.10 ft	125.00 ml/min
3/16/2020 12:07 PM	20:00	6.01 pH	14.82 °C	122.82 µS/cm	0.55 mg/L	0.50 NTU	97.6 mV	8.10 ft	125.00 ml/min
3/16/2020 12:12 PM	25:00	6.01 pH	14.86 °C	122.49 µS/cm	0.47 mg/L	0.40 NTU	97.4 mV	8.10 ft	125.00 ml/min
3/16/2020 12:17 PM	30:00	6.01 pH	14.86 °C	123.55 µS/cm	0.42 mg/L	0.40 NTU	97.6 mV	8.10 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/17/2020 11:00:51 AM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9 ft Total Depth: 19 ft Initial Depth to Water: 1.94 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 11:35. Dup 1 here

Weather: Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/17/2020 11:00 AM	00:00	6.90 pH	16.07 °C	35.48 µS/cm	8.55 mg/L		-11.1 mV	1.94 ft	300.00 ml/min
3/17/2020 11:05 AM	05:00	5.86 pH	16.43 °C	31.95 µS/cm	6.14 mg/L	3.50 NTU	33.8 mV	2.00 ft	300.00 ml/min
3/17/2020 11:10 AM	10:00	5.75 pH	16.48 °C	31.69 µS/cm	6.03 mg/L	1.50 NTU	57.7 mV	2.00 ft	300.00 ml/min
3/17/2020 11:15 AM	15:00	5.66 pH	16.49 °C	31.73 µS/cm	6.02 mg/L	0.90 NTU	72.2 mV	2.00 ft	300.00 ml/min
3/17/2020 11:20 AM	20:00	5.63 pH	16.51 °C	31.70 µS/cm	6.02 mg/L	0.40 NTU	78.2 mV	2.00 ft	300.00 ml/min
3/17/2020 11:25 AM	25:00	5.62 pH	16.51 °C	31.68 µS/cm	6.02 mg/L	0.30 NTU	81.4 mV	2.00 ft	300.00 ml/min
3/17/2020 11:30 AM	30:00	5.61 pH	16.51 °C	31.51 µS/cm	6.02 mg/L	0.20 NTU	83.4 mV	2.00 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/17/2020 10:05:09 AM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 64 ft Total Depth: 73.9 ft Initial Depth to Water: 1.15 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 69 ft Estimated Total Volume Pumped: 1.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 10:40

Weather: Cloudy, light precipitation

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/17/2020 10:05 AM	00:00	6.83 pH	14.09 °C	155.17 µS/cm	4.85 mg/L		115.4 mV	1.15 ft	150.00 ml/min
3/17/2020 10:10 AM	05:00	6.72 pH	15.04 °C	131.75 µS/cm	1.00 mg/L	3.70 NTU	57.9 mV	1.70 ft	150.00 ml/min
3/17/2020 10:15 AM	10:00	6.68 pH	15.13 °C	130.70 µS/cm	0.53 mg/L	3.60 NTU	40.5 mV	1.80 ft	150.00 ml/min
3/17/2020 10:20 AM	15:00	6.73 pH	15.21 °C	130.41 µS/cm	0.33 mg/L	3.50 NTU	25.4 mV	1.70 ft	150.00 ml/min
3/17/2020 10:25 AM	20:00	6.76 pH	15.24 °C	129.97 µS/cm	0.26 mg/L	3.60 NTU	13.0 mV	1.70 ft	150.00 ml/min
3/17/2020 10:30 AM	25:00	6.80 pH	15.30 °C	129.05 µS/cm	0.21 mg/L	3.60 NTU	1.7 mV	1.70 ft	150.00 ml/min
3/17/2020 10:35 AM	30:00	6.83 pH	15.34 °C	128.88 µS/cm	0.20 mg/L	1.90 NTU	-7.9 mV	1.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2020-03-17 12:43:19

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley Ash Ponds
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 445707
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 23 ft

Pump placement from TOC 18 ft

Well Information:

Well ID WGWA-5
Well diameter 2 in
Well Total Depth 23.19 ft
Screen Length 10 ft
Depth to Water 7.08 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1926587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	12:22:10	1500.02	15.62	5.61	24.38	5.07	7.39	5.61	203.41
Last 5	12:27:10	1800.02	15.65	5.50	24.14	4.81	7.44	5.60	200.96
Last 5	12:32:10	2100.02	15.71	5.42	23.97	4.77	7.48	5.62	199.23
Last 5	12:37:10	2400.02	15.68	5.39	23.86	4.60	7.52	5.63	195.24
Last 5	12:42:10	2700.03	15.80	5.34	23.76	4.64	7.56	5.68	193.21
Variance 0			0.06	-0.07	-0.17			0.02	-1.73
Variance 1			-0.02	-0.04	-0.11			0.01	-3.99
Variance 2			0.12	-0.05	-0.10			0.05	-2.03

Notes

Sampled at 1250. Cloudy 63 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 11:17:32

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 445707
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 104.5 ft

Pump placement from TOC 99 ft

Well Information:

Well ID WGWA6
Well diameter 2 in
Well Total Depth 104.5 ft
Screen Length 10 ft
Depth to Water 8.00 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5564277 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 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			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 25
Last 5	10:55:17	1200.03	15.66	8.14	169.09	3.40	8.50	0.93	-135.36
Last 5	11:00:17	1500.03	15.85	8.06	169.14	3.75	8.56	0.86	-138.85
Last 5	11:05:17	1800.02	15.93	8.02	169.11	3.91	8.61	0.85	-138.80
Last 5	11:10:18	2101.03	16.02	7.98	169.32	4.03	8.67	0.80	-139.16
Last 5	11:15:18	2401.02	16.17	7.95	169.27	4.22	8.73	0.73	-140.55
Variance 0			0.09	-0.05	-0.04			-0.01	0.05
Variance 1			0.09	-0.03	0.22			-0.06	-0.35
Variance 2			0.15	-0.03	-0.05			-0.07	-1.40

Notes

Sampled at 1115. Cloudy 58 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 14:07:00

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 445707
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 18 ft

Pump placement from TOC 35 ft

Well Information:

Well ID WGWA-7
Well diameter 2 in
Well Total Depth 39.60 ft
Screen Length 10 ft
Depth to Water 15.43 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.1703416 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 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			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 25
Last 5	13:45:42	600.02	16.69	5.35	21.96	0.97	15.50	7.64	193.51
Last 5	13:50:42	900.03	16.81	5.33	21.94	0.88	15.55	7.62	187.24
Last 5	13:55:42	1200.03	16.83	5.32	21.99	0.78	15.59	7.62	181.65
Last 5	14:00:42	1500.02	16.92	5.32	22.03	0.72	15.64	7.61	176.91
Last 5	14:05:42	1800.03	16.92	5.32	22.03	0.67	15.69	7.61	172.14
Variance 0			0.02	-0.01	0.04			-0.00	-5.59
Variance 1			0.09	0.00	0.04			-0.01	-4.74
Variance 2			0.00	0.00	0.00			-0.00	-4.76

Notes

Sampled at 1405. Cloudy 64 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 3/17/2020 12:51:34 PM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWA-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30 ft Total Depth: 40 ft Initial Depth to Water: 10.22 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 9.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 22.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 14:35

Weather: Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/17/2020 12:51 PM	00:00	6.72 pH	16.93 °C	143.34 µS/cm	7.92 mg/L		106.0 mV	10.22 ft	100.00 ml/min
3/17/2020 12:56 PM	05:00	7.21 pH	15.97 °C	153.03 µS/cm	2.59 mg/L	4.70 NTU	101.2 mV	12.10 ft	100.00 ml/min
3/17/2020 1:01 PM	10:00	7.30 pH	15.98 °C	154.27 µS/cm	2.25 mg/L	4.10 NTU	99.5 mV	12.10 ft	100.00 ml/min
3/17/2020 1:06 PM	15:00	7.32 pH	15.88 °C	154.31 µS/cm	2.19 mg/L	3.20 NTU	98.5 mV	12.10 ft	100.00 ml/min
3/17/2020 1:11 PM	20:00	7.41 pH	15.80 °C	155.74 µS/cm	1.63 mg/L	3.10 NTU	97.0 mV	12.10 ft	100.00 ml/min
3/17/2020 1:16 PM	25:00	7.31 pH	15.93 °C	153.81 µS/cm	1.84 mg/L	2.70 NTU	95.7 mV	12.10 ft	100.00 ml/min
3/17/2020 1:21 PM	30:00	7.18 pH	15.96 °C	150.18 µS/cm	1.75 mg/L	2.50 NTU	94.6 mV	12.10 ft	100.00 ml/min
3/17/2020 1:26 PM	35:00	7.06 pH	16.04 °C	146.43 µS/cm	1.63 mg/L	2.40 NTU	93.1 mV	12.10 ft	100.00 ml/min
3/17/2020 1:31 PM	40:00	6.99 pH	16.12 °C	143.90 µS/cm	1.57 mg/L	2.00 NTU	91.5 mV	12.10 ft	100.00 ml/min
3/17/2020 1:36 PM	45:00	6.92 pH	16.14 °C	141.07 µS/cm	1.51 mg/L	1.20 NTU	89.7 mV	12.10 ft	100.00 ml/min
3/17/2020 1:41 PM	50:00	6.85 pH	16.21 °C	138.31 µS/cm	1.50 mg/L	1.20 NTU	88.0 mV	12.10 ft	100.00 ml/min
3/17/2020 1:46 PM	55:00	6.80 pH	16.18 °C	133.74 µS/cm	1.49 mg/L	1.30 NTU	86.3 mV	12.10 ft	100.00 ml/min
3/17/2020 1:51 PM	01:00:00	6.72 pH	16.20 °C	128.70 µS/cm	1.55 mg/L	1.30 NTU	85.1 mV	12.10 ft	100.00 ml/min
3/17/2020 1:56 PM	01:05:00	6.66 pH	16.14 °C	124.25 µS/cm	1.60 mg/L	1.30 NTU	84.5 mV	12.10 ft	100.00 ml/min
3/17/2020 2:01 PM	01:10:00	6.62 pH	16.16 °C	121.24 µS/cm	1.63 mg/L	1.00 NTU	83.8 mV	12.10 ft	100.00 ml/min

3/17/2020 2:06 PM	01:15:00	6.54 pH	16.16 °C	115.10 µS/cm	1.77 mg/L	0.90 NTU	83.6 mV	12.10 ft	100.00 ml/min
3/17/2020 2:11 PM	01:20:00	6.49 pH	16.14 °C	109.98 µS/cm	1.87 mg/L	0.70 NTU	83.5 mV	12.10 ft	100.00 ml/min
3/17/2020 2:16 PM	01:25:00	6.42 pH	16.14 °C	104.89 µS/cm	1.99 mg/L	0.70 NTU	84.0 mV	12.10 ft	100.00 ml/min
3/17/2020 2:21 PM	01:30:00	6.37 pH	16.14 °C	100.23 µS/cm	2.08 mg/L	0.70 NTU	83.7 mV	12.10 ft	100.00 ml/min
3/17/2020 2:26 PM	01:35:00	6.36 pH	16.11 °C	99.89 µS/cm	2.17 mg/L	0.70 NTU	84.4 mV	12.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2020-03-19 13:52:06

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 407447
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 55 ft

Well Information:

Well ID WGWC-8
Well diameter 2 in
Well Total Depth 59.40 ft
Screen Length 10 ft
Depth to Water 2.28 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.3578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12 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			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	13:31:27	600.03	17.63	6.98	658.96	2.94	2.73	1.35	158.59
Last 5	13:36:27	900.03	17.32	6.63	719.22	2.77	2.85	1.30	169.20
Last 5	13:41:27	1200.02	17.30	6.45	728.95	2.52	2.93	1.25	170.40
Last 5	13:46:27	1500.02	17.31	6.44	730.99	2.22	3.06	1.26	172.95
Last 5	13:51:27	1800.02	17.32	6.43	732.57	2.10	3.17	1.25	169.90
Variance 0			-0.02	-0.19	9.73			-0.05	1.20
Variance 1			0.00	-0.01	2.04			0.01	2.54
Variance 2			0.01	-0.01	1.57			-0.01	-3.04

Notes

Sampled at 1249. Sunny 75 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 12:25:51

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 445707
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 61 ft

Pump placement from TOC 56 ft

Well Information:

Well ID WGWC-9
Well diameter 2 in
Well Total Depth 61.42 ft
Screen Length 10 ft
Depth to Water 16.45 ft

Pumping Information:

Final Pumping Rate 80 mL/min
Total System Volume 0.1792685 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 25 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			+/- 1	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 25
Last 5	12:04:55	3301.03	22.94	6.81	171.07	0.68	18.88	6.10	106.95
Last 5	12:09:55	3601.03	21.71	6.79	161.76	0.66	18.86	6.07	103.31
Last 5	12:14:55	3901.03	20.97	6.72	166.75	0.39	18.83	5.95	102.08
Last 5	12:19:56	4202.03	21.32	6.66	166.44	0.38	18.80	5.88	100.50
Last 5	12:24:56	4502.03	21.19	6.64	166.10	0.45	18.75	5.83	100.51
Variance 0			-0.74	-0.07	5.00			-0.12	-1.22
Variance 1			0.36	-0.06	-0.31			-0.07	-1.58
Variance 2			-0.13	-0.03	-0.34			-0.05	0.01

Notes

Sampled at 1122. Sunny 69 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 3/18/2020 2:20:02 PM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 137 ft Total Depth: 147.16 ft Initial Depth to Water: 10.95 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 142 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 25 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 14:55

Weather: Cloudy 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/18/2020 2:20 PM	00:00	7.01 pH	23.67 °C	68.72 µS/cm	4.44 mg/L		71.1 mV	10.95 ft	100.00 ml/min
3/18/2020 2:25 PM	05:00	6.32 pH	18.30 °C	70.58 µS/cm	1.27 mg/L	4.60 NTU	74.3 mV	13.00 ft	100.00 ml/min
3/18/2020 2:30 PM	10:00	6.35 pH	17.95 °C	70.73 µS/cm	3.56 mg/L	4.50 NTU	75.6 mV	13.00 ft	100.00 ml/min
3/18/2020 2:35 PM	15:00	6.40 pH	17.88 °C	71.76 µS/cm	4.79 mg/L	3.00 NTU	76.0 mV	13.00 ft	100.00 ml/min
3/18/2020 2:40 PM	20:00	6.41 pH	17.79 °C	71.80 µS/cm	5.02 mg/L	2.70 NTU	76.6 mV	13.00 ft	100.00 ml/min
3/18/2020 2:45 PM	25:00	6.40 pH	17.90 °C	71.48 µS/cm	5.01 mg/L	2.50 NTU	77.0 mV	13.00 ft	100.00 ml/min
3/18/2020 2:50 PM	30:00	6.40 pH	17.90 °C	71.20 µS/cm	5.02 mg/L	1.80 NTU	77.4 mV	13.00 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2020-03-18 13:05:52

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 445707
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 50 ft

Pump placement from TOC 45 ft

Well Information:

Well ID WGWC-11
Well diameter 2 in
Well Total Depth 49.50 ft
Screen Length 10 ft
Depth to Water 12.58 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.3131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 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			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 25
Last 5	12:45:10	1200.03	18.57	6.13	34.39	0.82	13.85	7.64	153.67
Last 5	12:50:10	1500.03	18.81	6.03	34.36	0.88	13.79	7.63	153.16
Last 5	12:55:10	1800.03	19.07	5.96	34.65	0.83	13.75	7.61	151.92
Last 5	13:00:10	2100.03	19.45	5.92	34.75	0.95	13.70	7.57	151.59
Last 5	13:05:10	2400.03	19.79	5.89	34.76	0.89	13.65	7.51	150.15
Variance 0			0.26	-0.07	0.29			-0.02	-1.24
Variance 1			0.39	-0.04	0.10			-0.04	-0.33
Variance 2			0.34	-0.03	0.01			-0.06	-1.44

Notes

Sampled at 1305. Cloudy 69 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 11:45:50

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 445707
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 77 ft

Pump placement from TOC 71 ft

Well Information:

Well ID WGWC-12
Well diameter 2 in
Well Total Depth 76.57 ft
Screen Length 10 ft
Depth to Water 12.45 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.4336836 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 17 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			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 25
Last 5	11:25:14	4500.03	17.76	6.96	126.57	7.40	12.75	0.37	-20.34
Last 5	11:30:14	4800.02	17.81	6.94	126.30	6.80	12.75	0.35	-19.22
Last 5	11:35:15	5101.03	17.78	6.93	125.87	6.00	12.75	0.36	-18.22
Last 5	11:40:15	5401.03	17.84	6.94	125.13	5.50	12.75	0.33	-18.75
Last 5	11:45:15	5701.03	17.83	6.93	124.86	4.70	12.75	0.30	-17.84
Variance 0			-0.03	-0.01	-0.43			0.00	1.01
Variance 1			0.07	0.01	-0.74			-0.02	-0.53
Variance 2			-0.01	-0.01	-0.27			-0.03	0.91

Notes

Sampled at 1145. Cloudy 64 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 3/19/2020 10:20:03 AM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85 ft Total Depth: 95.55 ft Initial Depth to Water: 14.74 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 35 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 11:15

Weather: Cloudy 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/19/2020 10:20 AM	00:00	7.01 pH	18.67 °C	80.64 µS/cm	6.87 mg/L		82.5 mV	14.74 ft	100.00 ml/min
3/19/2020 10:25 AM	05:00	6.35 pH	17.30 °C	70.51 µS/cm	2.58 mg/L	7.00 NTU	58.0 mV	17.70 ft	100.00 ml/min
3/19/2020 10:30 AM	10:00	6.54 pH	17.35 °C	94.78 µS/cm	2.32 mg/L	6.90 NTU	57.2 mV	17.70 ft	100.00 ml/min
3/19/2020 10:35 AM	15:00	6.56 pH	17.50 °C	96.77 µS/cm	2.05 mg/L	6.10 NTU	55.7 mV	17.70 ft	100.00 ml/min
3/19/2020 10:40 AM	20:00	6.57 pH	17.70 °C	97.27 µS/cm	1.97 mg/L	5.80 NTU	54.7 mV	17.70 ft	100.00 ml/min
3/19/2020 10:45 AM	25:00	6.56 pH	17.72 °C	98.65 µS/cm	1.89 mg/L	6.20 NTU	54.6 mV	17.70 ft	100.00 ml/min
3/19/2020 10:50 AM	30:00	6.56 pH	17.68 °C	99.72 µS/cm	1.78 mg/L	5.90 NTU	54.6 mV	17.70 ft	100.00 ml/min
3/19/2020 10:55 AM	35:00	6.56 pH	17.77 °C	100.07 µS/cm	1.71 mg/L	5.80 NTU	54.5 mV	17.70 ft	100.00 ml/min
3/19/2020 11:00 AM	40:00	6.56 pH	17.79 °C	99.92 µS/cm	1.66 mg/L	5.20 NTU	54.6 mV	17.70 ft	100.00 ml/min
3/19/2020 11:05 AM	45:00	6.56 pH	18.11 °C	99.66 µS/cm	1.65 mg/L	5.10 NTU	54.2 mV	17.70 ft	100.00 ml/min
3/19/2020 11:10 AM	50:00	6.56 pH	18.27 °C	98.92 µS/cm	1.64 mg/L	4.70 NTU	54.5 mV	17.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/19/2020 12:26:37 PM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33 ft Total Depth: 43.08 ft Initial Depth to Water: 12.93 ft	Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 18 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 13:35

Weather: Cloudy 70s

EB-2 here. 13:10

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/19/2020 12:26 PM	00:00	5.56 pH	20.55 °C	30.50 µS/cm	4.46 mg/L		53.0 mV	12.93 ft	100.00 ml/min
3/19/2020 12:31 PM	05:00	5.53 pH	19.37 °C	30.98 µS/cm	3.65 mg/L	4.50 NTU	57.1 mV	14.40 ft	100.00 ml/min
3/19/2020 12:36 PM	10:00	5.51 pH	19.51 °C	31.22 µS/cm	3.21 mg/L	3.60 NTU	59.2 mV	14.40 ft	100.00 ml/min
3/19/2020 12:41 PM	15:00	5.49 pH	19.43 °C	31.08 µS/cm	2.81 mg/L	2.20 NTU	61.4 mV	14.40 ft	100.00 ml/min
3/19/2020 12:46 PM	20:00	5.49 pH	19.42 °C	30.89 µS/cm	2.25 mg/L	1.50 NTU	62.9 mV	14.40 ft	100.00 ml/min
3/19/2020 12:51 PM	25:00	5.49 pH	19.46 °C	31.38 µS/cm	2.21 mg/L	1.50 NTU	64.4 mV	14.40 ft	100.00 ml/min
3/19/2020 12:56 PM	30:00	5.48 pH	19.85 °C	31.30 µS/cm	1.80 mg/L	1.60 NTU	64.9 mV	14.40 ft	100.00 ml/min
3/19/2020 1:01 PM	35:00	5.48 pH	19.57 °C	31.73 µS/cm	1.75 mg/L	1.60 NTU	66.3 mV	14.40 ft	100.00 ml/min
3/19/2020 1:06 PM	40:00	5.49 pH	20.22 °C	32.16 µS/cm	1.57 mg/L	1.50 NTU	66.3 mV	14.40 ft	100.00 ml/min
3/19/2020 1:11 PM	45:00	5.49 pH	20.16 °C	32.57 µS/cm	1.52 mg/L	1.50 NTU	67.3 mV	14.40 ft	100.00 ml/min
3/19/2020 1:16 PM	50:00	5.48 pH	20.49 °C	32.26 µS/cm	1.35 mg/L	1.50 NTU	67.2 mV	14.40 ft	100.00 ml/min
3/19/2020 1:21 PM	55:00	5.50 pH	20.44 °C	32.66 µS/cm	1.30 mg/L	1.50 NTU	68.4 mV	14.40 ft	100.00 ml/min
3/19/2020 1:26 PM	01:00:00	5.49 pH	20.53 °C	32.86 µS/cm	1.38 mg/L	1.50 NTU	68.4 mV	14.40 ft	100.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 3/18/2020 10:05:07 AM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43 ft Total Depth: 53.36 ft Initial Depth to Water: 15.62 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 2.5 L Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 51 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 10:35

Weather: Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/18/2020 10:05 AM	00:00	7.37 pH	15.58 °C	250.95 µS/cm	7.16 mg/L		117.4 mV	15.62 ft	100.00 ml/min
3/18/2020 10:10 AM	05:00	7.64 pH	16.12 °C	248.68 µS/cm	3.52 mg/L	0.50 NTU	97.2 mV	19.90 ft	100.00 ml/min
3/18/2020 10:15 AM	10:00	7.71 pH	16.38 °C	239.00 µS/cm	2.90 mg/L	0.50 NTU	90.6 mV	19.90 ft	100.00 ml/min
3/18/2020 10:20 AM	15:00	7.72 pH	16.44 °C	237.43 µS/cm	3.48 mg/L	0.60 NTU	88.5 mV	19.90 ft	100.00 ml/min
3/18/2020 10:25 AM	20:00	7.73 pH	16.50 °C	232.26 µS/cm	3.55 mg/L	0.60 NTU	87.2 mV	19.90 ft	100.00 ml/min
3/18/2020 10:30 AM	25:00	7.73 pH	16.52 °C	236.74 µS/cm	3.57 mg/L	0.60 NTU	86.0 mV	19.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/18/2020 11:09:54 AM

Project: Plant Wansley AP

Operator Name: Anna Schnittker

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24 ft Total Depth: 34.78 ft Initial Depth to Water: 14.54 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 3.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sample time: 11:45

Weather: Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/18/2020 11:09 AM	00:00	5.20 pH	16.65 °C	574.76 µS/cm	7.15 mg/L		115.9 mV	14.54 ft	125.00 ml/min
3/18/2020 11:14 AM	05:00	5.11 pH	16.55 °C	613.12 µS/cm	6.28 mg/L	0.20 NTU	122.3 mV	14.70 ft	125.00 ml/min
3/18/2020 11:20 AM	10:39	5.09 pH	16.56 °C	621.79 µS/cm	6.11 mg/L	0.20 NTU	127.0 mV	14.70 ft	125.00 ml/min
3/18/2020 11:25 AM	15:39	5.08 pH	16.58 °C	627.00 µS/cm	6.09 mg/L	0.20 NTU	129.1 mV	14.70 ft	125.00 ml/min
3/18/2020 11:30 AM	20:39	5.08 pH	16.61 °C	626.26 µS/cm	6.10 mg/L	0.20 NTU	130.9 mV	14.70 ft	125.00 ml/min
3/18/2020 11:35 AM	25:39	5.08 pH	16.65 °C	626.63 µS/cm	6.09 mg/L	0.20 NTU	132.5 mV	14.70 ft	125.00 ml/min
3/18/2020 11:40 AM	30:39	5.08 pH	16.65 °C	626.00 µS/cm	6.09 mg/L	0.20 NTU	133.4 mV	14.70 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2020-03-18 15:12:41

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 445707
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 96 ft

Pump placement from TOC 91 ft

Well Information:

Well ID WGWC-17
Well diameter 2 in
Well Total Depth 95.94 ft
Screen Length 10 ft
Depth to Water 25.05 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5184886 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 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			+/- 1	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 25
Last 5	14:51:59	600.03	20.59	6.26	99.60	1.45	25.50	0.98	-54.08
Last 5	14:56:59	900.03	19.98	6.28	97.68	1.22	25.52	0.30	-30.18
Last 5	15:01:59	1200.03	19.42	6.28	99.19	0.86	25.57	0.38	-32.34
Last 5	15:06:59	1500.03	19.18	6.28	100.72	0.75	25.62	0.28	-40.90
Last 5	15:11:59	1800.03	19.15	6.30	103.25	0.75	25.62	0.14	-53.12
Variance 0			-0.57	0.01	1.50			0.08	-2.17
Variance 1			-0.24	-0.01	1.53			-0.10	-8.55
Variance 2			-0.03	0.02	2.54			-0.13	-12.23

Notes

Sampled at 1511. Sunny 76 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 5/4/2020 10:50:05 AM

Project: Plant Wansley AP

Operator Name: O. Fuquea

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85 ft Total Depth: 94.84 ft Initial Depth to Water: 18.31 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/4/2020 10:50 AM	00:00	7.00 pH	18.06 °C	157.73 µS/cm	0.29 mg/L		128.0 mV	18.31 ft	100.00 ml/min
5/4/2020 10:55 AM	05:00	6.88 pH	17.72 °C	159.64 µS/cm	0.24 mg/L	2.05 NTU	96.9 mV	18.31 ft	100.00 ml/min
5/4/2020 11:00 AM	10:00	6.88 pH	17.71 °C	161.82 µS/cm	0.22 mg/L	1.33 NTU	93.7 mV	18.31 ft	100.00 ml/min
5/4/2020 11:05 AM	15:00	6.90 pH	17.76 °C	163.67 µS/cm	0.21 mg/L	1.23 NTU	90.3 mV	18.31 ft	100.00 ml/min
5/4/2020 11:10 AM	20:00	6.91 pH	18.03 °C	166.12 µS/cm	0.23 mg/L	1.52 NTU	86.7 mV	18.31 ft	100.00 ml/min
5/4/2020 11:15 AM	25:00	6.90 pH	18.96 °C	168.46 µS/cm	0.31 mg/L	1.64 NTU	89.1 mV	18.31 ft	100.00 ml/min

Samples

Sample ID:	Description:
WGWC-19	Sampled at 1115. Clear 76F.

Low-Flow Test Report:

Test Date / Time: 9/22/2020 10:02:08 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.6 ft Total Depth: 129.6 ft Initial Depth to Water: 27.73 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 124.6 ft Estimated Total Volume Pumped: 4125 ml Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Collected at 1057. 59F cloudy.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/22/2020 10:02 AM	00:00	9.24 pH	14.49 °C	14,335 µS/cm	10.43 mg/L		242.7 mV	27.73 ft	75.00 ml/min
9/22/2020 10:07 AM	05:00	6.94 pH	17.45 °C	56.54 µS/cm	1.04 mg/L	1.89 NTU	137.5 mV	27.73 ft	75.00 ml/min
9/22/2020 10:12 AM	10:00	5.63 pH	17.98 °C	35.77 µS/cm	1.10 mg/L	1.30 NTU	128.2 mV	27.73 ft	75.00 ml/min
9/22/2020 10:17 AM	15:00	5.29 pH	18.18 °C	34.57 µS/cm	2.06 mg/L	1.15 NTU	128.6 mV	27.73 ft	75.00 ml/min
9/22/2020 10:22 AM	20:00	5.20 pH	18.30 °C	34.86 µS/cm	2.82 mg/L	0.87 NTU	131.0 mV	27.73 ft	75.00 ml/min
9/22/2020 10:27 AM	25:00	5.15 pH	18.35 °C	34.78 µS/cm	2.95 mg/L	0.50 NTU	132.5 mV	27.73 ft	75.00 ml/min
9/22/2020 10:32 AM	30:00	5.14 pH	18.29 °C	34.97 µS/cm	2.65 mg/L	0.51 NTU	131.7 mV	27.73 ft	75.00 ml/min
9/22/2020 10:37 AM	35:00	5.12 pH	18.43 °C	35.09 µS/cm	2.31 mg/L	0.49 NTU	132.3 mV	27.73 ft	75.00 ml/min
9/22/2020 10:42 AM	40:00	5.09 pH	18.55 °C	35.17 µS/cm	2.06 mg/L	0.47 NTU	132.9 mV	27.73 ft	75.00 ml/min
9/22/2020 10:47 AM	45:00	5.12 pH	18.65 °C	35.18 µS/cm	1.91 mg/L	0.64 NTU	131.0 mV	27.73 ft	75.00 ml/min
9/22/2020 10:52 AM	50:00	5.10 pH	18.65 °C	35.24 µS/cm	1.83 mg/L	0.60 NTU	131.2 mV	27.73 ft	75.00 ml/min
9/22/2020 10:57 AM	55:00	5.09 pH	18.74 °C	35.22 µS/cm	1.77 mg/L	0.42 NTU	131.0 mV	27.73 ft	75.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/21/2020 11:40:19 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.65 ft Total Depth: 102.65 ft Initial Depth to Water: 10.41 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97.65 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.69 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Collected at 1210. Clear 60F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/21/2020 11:40 AM	00:00	6.18 pH	18.14 °C	121.38 µS/cm	0.17 mg/L		124.1 mV	10.41 ft	125.00 ml/min
9/21/2020 11:45 AM	05:00	6.04 pH	17.98 °C	119.81 µS/cm	0.13 mg/L	1.55 NTU	102.8 mV	11.10 ft	125.00 ml/min
9/21/2020 11:50 AM	10:00	6.02 pH	18.35 °C	120.29 µS/cm	0.12 mg/L	1.53 NTU	98.8 mV	11.10 ft	125.00 ml/min
9/21/2020 11:55 AM	15:00	6.04 pH	17.98 °C	121.45 µS/cm	0.12 mg/L	1.48 NTU	95.8 mV	11.10 ft	125.00 ml/min
9/21/2020 12:00 PM	20:00	6.04 pH	17.88 °C	122.01 µS/cm	0.13 mg/L	0.65 NTU	94.1 mV	11.10 ft	125.00 ml/min
9/21/2020 12:05 PM	25:00	6.05 pH	17.82 °C	122.68 µS/cm	0.14 mg/L	0.63 NTU	92.8 mV	11.10 ft	125.00 ml/min
9/21/2020 12:10 PM	30:00	6.05 pH	17.76 °C	123.36 µS/cm	0.15 mg/L	0.54 NTU	93.2 mV	11.10 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/21/2020 2:31:29 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuqea

Location Name: WGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9 ft Total Depth: 19 ft Initial Depth to Water: 4.03 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Collected at 1501. 71F cloudy.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/21/2020 2:31 PM	00:00	6.14 pH	18.25 °C	33.18 µS/cm	5.58 mg/L		77.3 mV	4.03 ft	300.00 ml/min
9/21/2020 2:36 PM	05:00	5.62 pH	17.87 °C	31.73 µS/cm	5.69 mg/L	1.03 NTU	101.5 mV	4.03 ft	300.00 ml/min
9/21/2020 2:41 PM	10:00	5.51 pH	17.77 °C	31.39 µS/cm	5.74 mg/L	0.94 NTU	111.8 mV	4.03 ft	300.00 ml/min
9/21/2020 2:46 PM	15:00	5.48 pH	17.75 °C	31.42 µS/cm	5.74 mg/L	0.66 NTU	117.1 mV	4.03 ft	300.00 ml/min
9/21/2020 2:51 PM	20:00	5.38 pH	17.72 °C	31.48 µS/cm	5.75 mg/L	0.61 NTU	153.2 mV	4.03 ft	300.00 ml/min
9/21/2020 2:56 PM	25:00	5.38 pH	17.68 °C	31.48 µS/cm	5.75 mg/L	1.00 NTU	156.7 mV	4.03 ft	300.00 ml/min
9/21/2020 3:01 PM	30:00	5.35 pH	17.68 °C	31.50 µS/cm	5.76 mg/L	0.70 NTU	160.7 mV	4.03 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/21/2020 1:31:08 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.9 ft Total Depth: 73.9 ft Initial Depth to Water: 6.66 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 68.9 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.94 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Collected at 1400. Cloudy 68F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/21/2020 1:31 PM	00:00	6.84 pH	25.89 °C	109.51 µS/cm	7.59 mg/L		93.2 mV	6.66 ft	150.00 ml/min
9/21/2020 1:36 PM	05:00	6.83 pH	23.34 °C	114.24 µS/cm	2.55 mg/L	2.30 NTU	35.9 mV	6.80 ft	150.00 ml/min
9/21/2020 1:41 PM	10:00	6.74 pH	19.52 °C	126.31 µS/cm	0.27 mg/L	4.32 NTU	13.5 mV	7.00 ft	150.00 ml/min
9/21/2020 1:46 PM	15:00	6.77 pH	19.04 °C	128.62 µS/cm	0.15 mg/L	5.57 NTU	-4.7 mV	7.30 ft	150.00 ml/min
9/21/2020 1:51 PM	20:00	6.80 pH	18.87 °C	128.38 µS/cm	0.10 mg/L	3.77 NTU	-12.6 mV	7.60 ft	150.00 ml/min
9/21/2020 1:56 PM	25:00	6.81 pH	19.08 °C	127.96 µS/cm	0.10 mg/L	3.85 NTU	-17.3 mV	7.60 ft	150.00 ml/min
9/21/2020 2:01 PM	30:00	6.81 pH	19.17 °C	126.44 µS/cm	0.11 mg/L	2.38 NTU	-21.2 mV	7.60 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2020 11:10:27 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.19 ft Total Depth: 23.19 ft Initial Depth to Water: 17.94 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 200 ft Estimated Total Volume Pumped: 14000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 12.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sunny, 70s, sample time-1220

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/22/2020 11:10 AM	00:00	6.96 pH	19.73 °C	283.20 µS/cm	1.77 mg/L		62.6 mV	18.40 ft	200.00 ml/min
9/22/2020 11:15 AM	05:00	6.68 pH	18.39 °C	283.87 µS/cm	0.41 mg/L	5.04 NTU	45.1 mV	17.94 ft	200.00 ml/min
9/22/2020 11:20 AM	10:00	6.68 pH	18.46 °C	268.65 µS/cm	0.22 mg/L	5.32 NTU	32.2 mV	18.70 ft	200.00 ml/min
9/22/2020 11:25 AM	15:00	6.68 pH	18.45 °C	75.34 µS/cm	1.40 mg/L	4.91 NTU	19.2 mV	19.00 ft	200.00 ml/min
9/22/2020 11:30 AM	20:00	6.16 pH	18.48 °C	52.28 µS/cm	2.02 mg/L	3.33 NTU	34.3 mV	19.00 ft	200.00 ml/min
9/22/2020 11:35 AM	25:00	6.06 pH	18.26 °C	68.77 µS/cm	0.87 mg/L	4.72 NTU	36.5 mV	19.00 ft	200.00 ml/min
9/22/2020 11:40 AM	30:00	6.16 pH	18.12 °C	133.21 µS/cm	0.52 mg/L	5.77 NTU	39.1 mV	19.00 ft	200.00 ml/min
9/22/2020 11:45 AM	35:00	6.35 pH	18.39 °C	191.83 µS/cm	0.38 mg/L	3.78 NTU	39.1 mV	19.00 ft	200.00 ml/min
9/22/2020 11:50 AM	40:00	6.51 pH	18.91 °C	224.89 µS/cm	0.32 mg/L	2.95 NTU	38.8 mV	19.00 ft	200.00 ml/min
9/22/2020 11:55 AM	45:00	6.60 pH	19.02 °C	246.42 µS/cm	0.29 mg/L	1.90 NTU	38.6 mV	19.00 ft	200.00 ml/min
9/22/2020 12:00 PM	50:00	6.65 pH	19.50 °C	258.79 µS/cm	0.26 mg/L	2.21 NTU	37.6 mV	19.00 ft	200.00 ml/min
9/22/2020 12:05 PM	55:00	6.69 pH	19.29 °C	268.48 µS/cm	0.24 mg/L	2.04 NTU	36.2 mV	19.00 ft	200.00 ml/min
9/22/2020 12:10 PM	01:00:00	6.70 pH	18.98 °C	278.23 µS/cm	0.21 mg/L	1.72 NTU	34.1 mV	19.00 ft	200.00 ml/min
9/22/2020 12:15 PM	01:05:00	6.71 pH	19.33 °C	284.80 µS/cm	0.18 mg/L	1.55 NTU	30.3 mV	19.00 ft	200.00 ml/min
9/22/2020 12:20 PM	01:10:00	6.78 pH	19.57 °C	290.17 µS/cm	0.17 mg/L	1.09 NTU	29.8 mV	19.00 ft	200.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 9/22/2020 9:55:39 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 94.5 ft Total Depth: 104.5 ft Initial Depth to Water: 17.96 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 100 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 8.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Cloudy, 60s, sample time-1030

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/22/2020 9:55 AM	00:00	8.43 pH	17.46 °C	223.53 µS/cm	9.70 mg/L		149.4 mV	17.96 ft	100.00 ml/min
9/22/2020 10:00 AM	05:00	7.01 pH	17.32 °C	160.14 µS/cm	0.71 mg/L	2.06 NTU	101.2 mV	18.20 ft	100.00 ml/min
9/22/2020 10:05 AM	10:00	7.11 pH	17.19 °C	159.85 µS/cm	0.54 mg/L	2.21 NTU	84.3 mV	18.50 ft	100.00 ml/min
9/22/2020 10:10 AM	15:00	7.18 pH	17.32 °C	159.23 µS/cm	0.33 mg/L	2.22 NTU	81.9 mV	18.70 ft	100.00 ml/min
9/22/2020 10:15 AM	20:00	7.25 pH	17.06 °C	159.43 µS/cm	0.30 mg/L	1.94 NTU	79.8 mV	18.70 ft	100.00 ml/min
9/22/2020 10:20 AM	25:00	7.31 pH	17.28 °C	159.29 µS/cm	0.30 mg/L	1.26 NTU	77.1 mV	18.70 ft	100.00 ml/min
9/22/2020 10:25 AM	30:00	7.36 pH	17.28 °C	158.77 µS/cm	0.29 mg/L	1.28 NTU	74.8 mV	18.70 ft	100.00 ml/min
9/22/2020 10:30 AM	35:00	7.40 pH	17.41 °C	159.10 µS/cm	0.29 mg/L	1.46 NTU	72.4 mV	18.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2020 1:40:17 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft Initial Depth to Water: 28.53 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sunny, 70s, sample time-1420

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/22/2020 1:40 PM	00:00	6.95 pH	23.43 °C	25.55 µS/cm	7.08 mg/L		32.4 mV	28.53 ft	150.00 ml/min
9/22/2020 1:45 PM	05:00	6.23 pH	18.99 °C	22.11 µS/cm	7.46 mg/L	1.26 NTU	49.3 mV	28.70 ft	150.00 ml/min
9/22/2020 1:50 PM	10:00	5.89 pH	18.29 °C	22.15 µS/cm	7.49 mg/L	1.22 NTU	64.7 mV	28.70 ft	150.00 ml/min
9/22/2020 1:55 PM	15:00	5.69 pH	18.17 °C	22.10 µS/cm	7.45 mg/L	2.01 NTU	79.6 mV	28.70 ft	150.00 ml/min
9/22/2020 2:00 PM	20:00	5.55 pH	18.19 °C	22.05 µS/cm	7.44 mg/L	1.53 NTU	92.5 mV	28.70 ft	150.00 ml/min
9/22/2020 2:05 PM	25:00	5.48 pH	18.03 °C	22.19 µS/cm	7.51 mg/L	1.14 NTU	103.8 mV	28.70 ft	150.00 ml/min
9/22/2020 2:10 PM	30:00	5.42 pH	17.90 °C	22.22 µS/cm	7.67 mg/L	1.31 NTU	115.3 mV	28.70 ft	150.00 ml/min
9/22/2020 2:15 PM	35:00	5.38 pH	18.01 °C	22.11 µS/cm	7.44 mg/L	1.25 NTU	126.5 mV	28.70 ft	150.00 ml/min
9/22/2020 2:20 PM	40:00	5.36 pH	17.90 °C	22.13 µS/cm	7.51 mg/L	1.11 NTU	136.7 mV	28.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2020 12:32:13 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWA-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.59 ft Total Depth: 39.59 ft Initial Depth to Water: 21.67 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34.59 ft Estimated Total Volume Pumped: 4131.667 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.63 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Collected at 1315. 66F cloudy.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/22/2020 12:32 PM	00:00	5.75 pH	21.10 °C	0.00 µS/cm	8.55 mg/L		87.6 mV	21.67 ft	100.00 ml/min
9/22/2020 12:33 PM	01:19	5.75 pH	21.55 °C	0.00 µS/cm	8.46 mg/L		89.7 mV	21.67 ft	100.00 ml/min
9/22/2020 12:38 PM	06:19	6.26 pH	21.55 °C	90.63 µS/cm	8.42 mg/L	3.97 NTU	99.9 mV	21.80 ft	100.00 ml/min
9/22/2020 12:43 PM	11:19	6.66 pH	18.27 °C	123.01 µS/cm	2.86 mg/L	2.76 NTU	60.8 mV	22.30 ft	100.00 ml/min
9/22/2020 12:48 PM	16:19	6.99 pH	17.45 °C	133.95 µS/cm	1.88 mg/L	1.86 NTU	58.9 mV	22.90 ft	100.00 ml/min
9/22/2020 12:53 PM	21:19	7.18 pH	17.37 °C	140.59 µS/cm	1.17 mg/L	2.13 NTU	59.0 mV	23.40 ft	100.00 ml/min
9/22/2020 12:58 PM	26:19	7.29 pH	17.38 °C	143.39 µS/cm	0.90 mg/L	2.06 NTU	61.3 mV	24.10 ft	100.00 ml/min
9/22/2020 1:03 PM	31:19	7.28 pH	17.36 °C	144.62 µS/cm	0.75 mg/L	1.67 NTU	62.9 mV	24.20 ft	100.00 ml/min
9/22/2020 1:08 PM	36:19	7.25 pH	17.36 °C	144.78 µS/cm	0.61 mg/L	0.98 NTU	63.9 mV	24.20 ft	100.00 ml/min
9/22/2020 1:13 PM	41:19	7.18 pH	17.39 °C	144.07 µS/cm	0.49 mg/L	0.73 NTU	64.5 mV	24.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/22/2020 1:55:22 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.4 ft Total Depth: 59.4 ft Initial Depth to Water: 5.63 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54.9 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.17 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Collected at 1430. 69F cloudy.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/22/2020 1:55 PM	00:00	7.41 pH	24.36 °C	0.10 µS/cm	8.06 mg/L		88.1 mV	5.63 ft	100.00 ml/min
9/22/2020 2:00 PM	05:00	6.30 pH	23.54 °C	763.54 µS/cm	2.55 mg/L	1.30 NTU	95.4 mV	5.80 ft	100.00 ml/min
9/22/2020 2:05 PM	10:00	5.32 pH	20.77 °C	772.93 µS/cm	1.08 mg/L	1.76 NTU	105.9 mV	6.50 ft	100.00 ml/min
9/22/2020 2:10 PM	15:00	5.21 pH	20.57 °C	772.41 µS/cm	1.04 mg/L	2.09 NTU	111.6 mV	7.00 ft	100.00 ml/min
9/22/2020 2:15 PM	20:00	5.19 pH	20.54 °C	772.90 µS/cm	1.00 mg/L	1.54 NTU	111.2 mV	7.00 ft	100.00 ml/min
9/22/2020 2:20 PM	25:00	5.18 pH	20.25 °C	774.88 µS/cm	0.97 mg/L	2.01 NTU	110.8 mV	7.60 ft	100.00 ml/min
9/22/2020 2:25 PM	30:00	5.18 pH	20.03 °C	776.41 µS/cm	0.97 mg/L	1.19 NTU	110.1 mV	7.70 ft	100.00 ml/min
9/22/2020 2:30 PM	35:00	5.17 pH	20.05 °C	775.64 µS/cm	0.99 mg/L	2.71 NTU	141.1 mV	7.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2020 3:20:53 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.42 ft Total Depth: 61.42 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 56 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 14.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sunny, 70s, sample time-1550

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/23/2020 3:20 PM	00:00	6.55 pH	23.88 °C	175.89 µS/cm	1.82 mg/L		68.5 mV	20.41 ft	100.00 ml/min
9/23/2020 3:25 PM	05:00	6.16 pH	22.85 °C	178.60 µS/cm	1.55 mg/L	4.21 NTU	73.6 mV	20.70 ft	100.00 ml/min
9/23/2020 3:30 PM	10:00	5.99 pH	22.80 °C	176.50 µS/cm	1.46 mg/L	0.78 NTU	77.4 mV	20.90 ft	100.00 ml/min
9/23/2020 3:35 PM	15:00	5.91 pH	23.03 °C	177.30 µS/cm	1.36 mg/L	1.11 NTU	80.5 mV	21.30 ft	100.00 ml/min
9/23/2020 3:40 PM	20:00	5.89 pH	24.34 °C	174.89 µS/cm	1.38 mg/L	1.27 NTU	81.9 mV	21.50 ft	100.00 ml/min
9/23/2020 3:45 PM	25:00	5.82 pH	23.61 °C	175.74 µS/cm	1.33 mg/L	0.92 NTU	85.2 mV	21.60 ft	100.00 ml/min
9/23/2020 3:50 PM	30:00	5.80 pH	22.77 °C	175.24 µS/cm	1.31 mg/L	0.86 NTU	88.9 mV	21.60 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2020 11:50:56 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 137.16 ft Total Depth: 147.16 ft Initial Depth to Water: 18.66 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 142.16 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.84 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1225. 72F clear.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/23/2020 11:50 AM	00:00	6.27 pH	21.45 °C	65.64 µS/cm	6.17 mg/L		74.0 mV	18.66 ft	100.00 ml/min
9/23/2020 11:55 AM	05:00	6.13 pH	19.18 °C	65.19 µS/cm	0.60 mg/L	5.83 NTU	80.1 mV	18.66 ft	100.00 ml/min
9/23/2020 12:00 PM	10:00	6.11 pH	18.98 °C	65.10 µS/cm	1.43 mg/L	4.22 NTU	81.1 mV	18.80 ft	100.00 ml/min
9/23/2020 12:05 PM	15:00	6.08 pH	19.03 °C	65.20 µS/cm	2.35 mg/L	4.19 NTU	83.3 mV	19.00 ft	100.00 ml/min
9/23/2020 12:10 PM	20:00	6.12 pH	18.16 °C	69.76 µS/cm	4.06 mg/L	3.65 NTU	84.2 mV	19.20 ft	100.00 ml/min
9/23/2020 12:15 PM	25:00	6.16 pH	17.98 °C	69.44 µS/cm	4.35 mg/L	3.35 NTU	83.5 mV	19.40 ft	100.00 ml/min
9/23/2020 12:20 PM	30:00	6.15 pH	17.85 °C	69.22 µS/cm	4.41 mg/L	3.09 NTU	84.3 mV	19.50 ft	100.00 ml/min
9/23/2020 12:25 PM	35:00	6.14 pH	17.85 °C	68.95 µS/cm	4.45 mg/L	2.58 NTU	85.1 mV	19.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/24/2020 9:50:18 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.5 ft Total Depth: 49.5 ft Initial Depth to Water: 24.85 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44.5 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 2.65 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1020. 66 F rain.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/24/2020 9:50 AM	00:00	8.01 pH	17.98 °C	55.47 µS/cm	7.72 mg/L		159.5 mV	24.85 ft	125.00 ml/min
9/24/2020 9:55 AM	05:00	6.13 pH	17.49 °C	35.12 µS/cm	7.65 mg/L	3.70 NTU	138.1 mV	27.50 ft	125.00 ml/min
9/24/2020 10:00 AM	10:00	5.64 pH	17.45 °C	35.31 µS/cm	7.78 mg/L	3.42 NTU	138.9 mV	27.50 ft	125.00 ml/min
9/24/2020 10:05 AM	15:00	5.57 pH	17.45 °C	35.39 µS/cm	7.88 mg/L	3.28 NTU	136.8 mV	27.50 ft	125.00 ml/min
9/24/2020 10:10 AM	20:00	5.50 pH	17.45 °C	35.61 µS/cm	7.95 mg/L	2.11 NTU	179.7 mV	27.50 ft	125.00 ml/min
9/24/2020 10:15 AM	25:00	5.53 pH	17.48 °C	35.77 µS/cm	8.01 mg/L	1.73 NTU	179.4 mV	27.50 ft	125.00 ml/min
9/24/2020 10:20 AM	30:00	5.50 pH	17.54 °C	35.70 µS/cm	8.03 mg/L	1.53 NTU	138.9 mV	27.50 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2020 12:56:19 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.57 ft Total Depth: 76.57 ft Initial Depth to Water: 24.34 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71.57 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 0.36 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1355. 73F cloudy.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/23/2020 12:56 PM	00:00	6.34 pH	20.71 °C	118.41 µS/cm	3.85 mg/L		84.6 mV	24.50 ft	125.00 ml/min
9/23/2020 1:01 PM	05:00	6.21 pH	18.52 °C	111.04 µS/cm	1.62 mg/L	354.00 NTU	47.7 mV	24.34 ft	125.00 ml/min
9/23/2020 1:06 PM	10:00	6.21 pH	18.49 °C	109.97 µS/cm	1.12 mg/L	271.00 NTU	43.3 mV	24.70 ft	125.00 ml/min
9/23/2020 1:11 PM	15:00	6.21 pH	18.91 °C	110.62 µS/cm	0.96 mg/L	163.00 NTU	38.2 mV	24.70 ft	125.00 ml/min
9/23/2020 1:16 PM	20:00	6.25 pH	18.61 °C	113.04 µS/cm	0.83 mg/L	76.50 NTU	34.1 mV	24.70 ft	125.00 ml/min
9/23/2020 1:21 PM	25:00	6.27 pH	18.78 °C	115.15 µS/cm	0.74 mg/L	51.10 NTU	30.6 mV	24.70 ft	125.00 ml/min
9/23/2020 1:26 PM	30:00	6.30 pH	18.61 °C	117.01 µS/cm	0.59 mg/L	28.30 NTU	27.9 mV	24.70 ft	125.00 ml/min
9/23/2020 1:31 PM	35:00	6.32 pH	18.83 °C	118.83 µS/cm	0.49 mg/L	21.80 NTU	25.4 mV	24.70 ft	125.00 ml/min
9/23/2020 1:36 PM	40:00	6.35 pH	18.65 °C	119.42 µS/cm	0.44 mg/L	17.00 NTU	23.2 mV	24.70 ft	125.00 ml/min
9/23/2020 1:41 PM	45:00	6.37 pH	18.65 °C	120.77 µS/cm	0.40 mg/L	14.20 NTU	21.6 mV	24.70 ft	125.00 ml/min
9/23/2020 1:46 PM	50:00	6.39 pH	19.00 °C	121.31 µS/cm	0.38 mg/L	11.90 NTU	19.3 mV	24.70 ft	125.00 ml/min
9/23/2020 1:51 PM	55:00	6.41 pH	19.18 °C	121.78 µS/cm	0.34 mg/L	9.30 NTU	17.5 mV	24.70 ft	125.00 ml/min
9/23/2020 1:56 PM	01:00:00	6.42 pH	19.46 °C	122.34 µS/cm	0.30 mg/L	4.33 NTU	15.8 mV	24.70 ft	125.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 9/24/2020 10:30:17 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.55 ft Total Depth: 95.55 ft Initial Depth to Water: 22.38 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 9.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Rain, 70s, sample time-1105

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/24/2020 10:30 AM	00:00	5.34 pH	18.18 °C	37.52 µS/cm	3.16 mg/L		188.3 mV	22.38 ft	100.00 ml/min
9/24/2020 10:35 AM	05:00	6.18 pH	18.31 °C	84.32 µS/cm	7.83 mg/L	7.03 NTU	161.9 mV	22.60 ft	100.00 ml/min
9/24/2020 10:40 AM	10:00	6.26 pH	18.44 °C	89.13 µS/cm	3.91 mg/L	9.10 NTU	156.9 mV	22.80 ft	100.00 ml/min
9/24/2020 10:45 AM	15:00	6.28 pH	18.48 °C	88.27 µS/cm	2.29 mg/L	15.00 NTU	150.2 mV	23.00 ft	100.00 ml/min
9/24/2020 10:50 AM	20:00	6.24 pH	18.42 °C	88.06 µS/cm	1.91 mg/L	7.41 NTU	141.8 mV	23.10 ft	100.00 ml/min
9/24/2020 10:55 AM	25:00	6.24 pH	18.31 °C	88.01 µS/cm	2.08 mg/L	5.68 NTU	133.7 mV	23.20 ft	100.00 ml/min
9/24/2020 11:00 AM	30:00	6.26 pH	18.25 °C	87.17 µS/cm	2.22 mg/L	3.83 NTU	128.2 mV	23.20 ft	100.00 ml/min
9/24/2020 11:05 AM	35:00	6.29 pH	18.09 °C	86.38 µS/cm	2.27 mg/L	2.68 NTU	124.6 mV	23.20 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/24/2020 9:20:18 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.08 ft Total Depth: 43.08 ft Initial Depth to Water: 23.51 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.375 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 10.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Rain, 70s, sample time-0955

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/24/2020 9:20 AM	00:00	8.78 pH	19.49 °C	2.11 µS/cm	8.96 mg/L	2.21 NTU	196.2 mV	23.80 ft	125.00 ml/min
9/24/2020 9:25 AM	05:00	6.59 pH	18.53 °C	30.29 µS/cm	1.55 mg/L	2.09 NTU	125.7 mV	24.00 ft	125.00 ml/min
9/24/2020 9:30 AM	10:00	5.35 pH	18.37 °C	28.63 µS/cm	0.94 mg/L	1.27 NTU	128.5 mV	24.30 ft	125.00 ml/min
9/24/2020 9:35 AM	15:00	5.23 pH	17.99 °C	28.10 µS/cm	0.64 mg/L	1.35 NTU	133.2 mV	24.40 ft	125.00 ml/min
9/24/2020 9:40 AM	20:00	5.18 pH	17.99 °C	27.73 µS/cm	0.63 mg/L	0.97 NTU	140.5 mV	24.40 ft	125.00 ml/min
9/24/2020 9:45 AM	25:00	5.17 pH	17.91 °C	27.67 µS/cm	0.58 mg/L	1.11 NTU	145.7 mV	24.40 ft	125.00 ml/min
9/24/2020 9:50 AM	30:00	5.18 pH	17.92 °C	27.89 µS/cm	0.56 mg/L	1.22 NTU	150.6 mV	24.40 ft	125.00 ml/min
9/24/2020 9:55 AM	35:00	5.16 pH	17.99 °C	27.82 µS/cm	0.56 mg/L	1.06 NTU	156.3 mV	24.40 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2020 1:55:20 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.36 ft Total Depth: 53.36 ft Initial Depth to Water: 19.25 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 4 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 21 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sunny, 70s, sample time-1430

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/23/2020 1:55 PM	00:00	6.55 pH	21.18 °C	209.23 µS/cm	4.94 mg/L		68.8 mV	19.25 ft	100.00 ml/min
9/23/2020 2:00 PM	05:00	6.82 pH	20.80 °C	224.86 µS/cm	2.92 mg/L	1.62 NTU	68.0 mV	20.00 ft	100.00 ml/min
9/23/2020 2:05 PM	10:00	7.02 pH	20.57 °C	238.68 µS/cm	1.45 mg/L	1.25 NTU	66.6 mV	20.50 ft	100.00 ml/min
9/23/2020 2:10 PM	15:00	7.16 pH	20.70 °C	237.66 µS/cm	1.45 mg/L	1.77 NTU	64.5 mV	20.90 ft	100.00 ml/min
9/23/2020 2:15 PM	20:00	7.25 pH	20.75 °C	231.94 µS/cm	1.93 mg/L	1.05 NTU	63.2 mV	21.00 ft	100.00 ml/min
9/23/2020 2:20 PM	25:00	7.30 pH	20.57 °C	228.68 µS/cm	2.41 mg/L	0.71 NTU	62.6 mV	21.00 ft	100.00 ml/min
9/23/2020 2:25 PM	30:00	7.32 pH	20.83 °C	227.23 µS/cm	2.70 mg/L	0.59 NTU	62.2 mV	21.00 ft	100.00 ml/min
9/23/2020 2:30 PM	35:00	7.34 pH	20.85 °C	225.57 µS/cm	2.90 mg/L	0.83 NTU	62.0 mV	21.00 ft	100.00 ml/min
9/23/2020 2:35 PM	40:00	7.35 pH	21.37 °C	224.93 µS/cm	2.94 mg/L	0.78 NTU	61.3 mV	21.00 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2020 1:00:21 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.78 ft Total Depth: 34.78 ft Initial Depth to Water: 18.67 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 2.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Cloudy, 70s, sample time-1330

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/23/2020 1:00 PM	00:00	6.69 pH	22.04 °C	1.89 µS/cm	8.58 mg/L		116.2 mV	18.67 ft	125.00 ml/min
9/23/2020 1:05 PM	05:00	5.39 pH	18.41 °C	425.87 µS/cm	4.51 mg/L	0.48 NTU	55.8 mV	18.90 ft	125.00 ml/min
9/23/2020 1:10 PM	10:00	5.15 pH	17.99 °C	391.90 µS/cm	3.76 mg/L	0.55 NTU	60.7 mV	18.90 ft	125.00 ml/min
9/23/2020 1:15 PM	15:00	5.09 pH	17.92 °C	392.02 µS/cm	3.65 mg/L	0.72 NTU	65.0 mV	18.90 ft	125.00 ml/min
9/23/2020 1:20 PM	20:00	5.07 pH	18.03 °C	391.86 µS/cm	3.62 mg/L	0.66 NTU	68.5 mV	18.90 ft	125.00 ml/min
9/23/2020 1:25 PM	25:00	5.06 pH	17.99 °C	393.71 µS/cm	3.53 mg/L	0.49 NTU	71.7 mV	18.90 ft	125.00 ml/min
9/23/2020 1:30 PM	30:00	5.05 pH	17.95 °C	394.55 µS/cm	3.55 mg/L	0.50 NTU	74.7 mV	18.90 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2020 10:41:04 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.94 ft Total Depth: 95.94 ft Initial Depth to Water: 29.19 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90.94 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.91 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1111. 67F cloudy.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/23/2020 10:41 AM	00:00	6.97 pH	18.56 °C	104.22 µS/cm	1.41 mg/L		78.0 mV	29.19 ft	150.00 ml/min
9/23/2020 10:46 AM	05:00	5.94 pH	17.72 °C	93.96 µS/cm	0.17 mg/L	3.79 NTU	51.6 mV	31.10 ft	150.00 ml/min
9/23/2020 10:51 AM	10:00	5.87 pH	17.64 °C	93.80 µS/cm	0.18 mg/L	2.64 NTU	52.4 mV	31.10 ft	150.00 ml/min
9/23/2020 10:56 AM	15:00	5.87 pH	17.66 °C	93.00 µS/cm	0.19 mg/L	2.40 NTU	54.2 mV	31.10 ft	150.00 ml/min
9/23/2020 11:01 AM	20:00	5.88 pH	17.63 °C	92.29 µS/cm	0.22 mg/L	2.42 NTU	54.8 mV	31.10 ft	150.00 ml/min
9/23/2020 11:06 AM	25:00	5.88 pH	17.63 °C	91.57 µS/cm	0.26 mg/L	2.02 NTU	56.2 mV	31.10 ft	150.00 ml/min
9/23/2020 11:11 AM	30:00	5.89 pH	17.67 °C	91.16 µS/cm	0.31 mg/L	2.09 NTU	56.4 mV	31.10 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 9/23/2020 2:30:06 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84.84 ft Total Depth: 94.84 ft Initial Depth to Water: 19.97 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 89.84 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.33 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1500. 77F cloudy.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
9/23/2020 2:30 PM	00:00	6.86 pH	21.42 °C	160.37 µS/cm	0.45 mg/L		36.3 mV	19.97 ft	200.00 ml/min
9/23/2020 2:35 PM	05:00	6.68 pH	18.90 °C	137.56 µS/cm	0.15 mg/L	3.54 NTU	47.4 mV	21.50 ft	200.00 ml/min
9/23/2020 2:40 PM	10:00	6.60 pH	18.73 °C	135.77 µS/cm	0.08 mg/L	1.36 NTU	50.4 mV	22.00 ft	200.00 ml/min
9/23/2020 2:45 PM	15:00	6.57 pH	19.04 °C	135.81 µS/cm	0.08 mg/L	1.42 NTU	52.2 mV	21.10 ft	200.00 ml/min
9/23/2020 2:50 PM	20:00	6.57 pH	18.87 °C	137.52 µS/cm	0.10 mg/L	1.38 NTU	53.4 mV	22.20 ft	200.00 ml/min
9/23/2020 2:55 PM	25:00	6.58 pH	18.61 °C	139.93 µS/cm	0.12 mg/L	1.29 NTU	55.0 mV	22.30 ft	200.00 ml/min
9/23/2020 3:00 PM	30:00	6.59 pH	18.87 °C	142.60 µS/cm	0.13 mg/L	1.26 NTU	56.1 mV	22.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
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APPENDIX D3
Equipment Calibration Forms



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: G. FODUCA

WATER LEVEL: Solinst Midl
WATER LEVEL S/N: 322101

INSTRUMENT S/N: SN 714344
INSTRUMENT TYPE: SmarTROLL

CAL. SOLUTIONS:	ID:	LOT #:	EXP. DATE:
	Cond.	964177	12/20
	pH 4	964003	12/21
	pH 7	9641160	8/21
	pH 10	2809E50	3/20
	ORP	962592	9/20
	ID:	LOT #:	EXP. DATE:
	ID:	LOT #:	EXP. DATE:

Calibration Date: 2/3/20
 RDO: 100% sat. = 101.59%
 PH: 4.00 = 3.98 7.00 = 6.94 10.00 = 9.92
 CONDUCTIVITY: 1303.7
 ORP (mV) 8.0

Calibration Date: 2/4/20
 RDO: 100% sat. = 93.95%
 PH: 4.00 = 4.10 7.00 = 7.05 10.00 = 10.10
 CONDUCTIVITY: 1352.7
 ORP (mV) 244.1

Calibration Date: 2/5/20
 RDO: 100% sat. = 99.95%
 PH: 4.00 = 4.35 7.00 = 7.01 10.00 = 10.03
 CONDUCTIVITY: 1494.9
 ORP (mV) 237.2

Calibration Date: 2/7/20
 RDO: 100% sat. = 99.45%
 PH: 4.00 = 4.12 7.00 = 7.11 10.00 = 10.21
 CONDUCTIVITY: 1394.2
 ORP (mV) 251.6%

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY:
 ORP (mV)



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: PF

INSTRUMENT S/N: 160090C052230 (PINE)
INSTRUMENT TYPE: Hach 2100Q *NAI*
CAL. SOLUTION: 0 NTU - LOT # EXP. DATE:
10 NTU - LOT # EXP. DATE:
20 NTU - LOT # EXP. DATE:

Calibration Date: 2-3-20

Calibration Solution	Instrument Reading	
0.0	<u>0.0</u>	NTU
10.0	<u>9.9</u>	NTU
20.0	<u>19.4</u>	NTU

Calibration Date: 2-4-20

Calibration Solution	Instrument Reading	
0.0	<u>0.0</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>19.9</u>	NTU

Calibration Date: 2-5-20

Calibration Solution	Instrument Reading	
0.0	<u>0.0</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>19.8</u>	NTU

Calibration Date: 2-7-20

Calibration Solution	Instrument Reading	
0.0	<u>0.0</u>	NTU
10.0	<u>10.2</u>	NTU
20.0	<u>19.9</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: H. Gold
 WATER LEVEL: A Solinst M104
 WATER LEVEL S/N: 714293 48832

INSTRUMENT S/N: 714293
 INSTRUMENT TYPE: SmartROLL Aquatroll
 CAL. SOLUTIONS/ID: pH 4 LOT #: 96L003 EXP. DATE: 12/21
pH 7 LOT #: 96H1100 EXP. DATE: 08/21
pH 10 LOT #: 2809E50 EXP. DATE: 3/20
Cond. 143 LOT #: 96L177 EXP. DATE: 12/20
ORP LOT #: 3296L592 EXP. DATE: 8/20 9/20
 ID: LOT #: EXP. DATE:
 ID: LOT #: EXP. DATE:

Calibration Date: 2-3-20
 RDO: 100% sat. = 95.5
 PH: 4.00 = 4.24 7.00 = 7.25 10.00 = 10.39
 CONDUCTIVITY: 1628.2
 ORP (mV) 237.3

Calibration Date: 2-4-20
 RDO: 100% sat. = 102.3
 PH: 4.00 = 4.02 7.00 = 7.01 10.00 = 10.24
 CONDUCTIVITY: 1395 (1314)
 ORP (mV) 238 (240)

Calibration Date: 2-5-20
 RDO: 100% sat. = 98.8
 PH: 4.00 = 4.03 7.00 = 6.94 10.00 = 10.06
 CONDUCTIVITY: 1314 = 1434
 ORP (mV) 240 = 239

Calibration Date: 2-7-20
 RDO: 100% sat. = 99.9
 PH: 4.00 = 3.98 7.00 = 7.03 10.00 = 10.14
 CONDUCTIVITY: 1464.5
 ORP (mV) 261

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY:
 ORP (mV)



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: H. Auld

INSTRUMENT S/N: 171200063767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: July 2020
10 NTU - LOT # A8194 EXP. DATE: July 2020
20 NTU - LOT # A8215 EXP. DATE: Aug 2020

Calibration Date: 2-3-20

Calibration Solution	Instrument Reading	
0.0	0.5	NTU
10.0	9.5	NTU
20.0	20.2	NTU

Calibration Date: 2-4-20

Calibration Solution	Instrument Reading	
0.0	0.4	NTU
10.0	9.3	NTU
20.0	20.1	NTU

Calibration Date: 2-5-20

Calibration Solution	Instrument Reading	
0.0	0.5	NTU
10.0	9.1	NTU
20.0	20.4	NTU

Calibration Date: 2-7-20

Calibration Solution	Instrument Reading	
0.0	0.5	NTU
10.0	9.24	NTU
20.0	20.5	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: T. Goble

INSTRUMENT S/N: 17120C063767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # New DI EXP. DATE: -
10 NTU - LOT # A8199 EXP. DATE: Jul 20
20 NTU - LOT # A8215 EXP. DATE: Aug 20

Calibration Date: 3-17-20

Calibration Solution	Instrument Reading	
0.0	<u>0.35</u>	NTU
10.0	<u>9.98</u>	NTU
20.0	<u>21.2</u>	NTU

Calibration Date: 3-18-20

Calibration Solution	Instrument Reading	
0.0	<u>0.42</u>	NTU
10.0	<u>9.77</u>	NTU
20.0	<u>21.0</u>	NTU

Calibration Date: 3-19-20

Calibration Solution	Instrument Reading	
0.0	<u>0.48</u>	NTU
10.0	<u>9.82</u>	NTU
20.0	<u>21.2</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Call

4 | 4.02
PH 7 | 6.95
10 | 10.20

3/16

DO: 101.2

Con: 1391

ORP: 245.3

0: 0.09
Tur: 10: 9.6
20: 19.5

Troll

3/17

Tur

DO | 100.6
Con | 1424.6
ORP | 245.7
PH 4 | 4.00
7 | 7.04
10 | 10.17

0 | 0.28
10 | 9.33
20 | 21.4

Troll

Tur

3/18

Troll

Tur

3/19

DO | 100.5
Con | 1405
ORP | 242.5
PH 4 | 4.04
7 | 7.05
10 | 10.11
0 | 0.12
10 | 9.52
20 | 19.3

DO | 99.2
ORP | 237.5
Con | 1523
PH 4 | 4.0
7 | 7.01
10 | 10.04

0 | 0.07
10 | 9.93
20 | 20.5

PH 7 | 96K721 11/21
PH 10 | 86B1055 2/21
PH 4 | 96I282 9/21
ORP | 96H881 5/20
Con | 86J875 10/20

10 | A9126 8/20
20 | A9275 1/21

Troll SN: 714293

Hash: 18090C069299



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: O. FUQUEA

WATER LEVEL:
WATER LEVEL S/N: 322 814

INSTRUMENT S/N: 714302
INSTRUMENT TYPE: SmarTROLL

CAL. SOLUTIONS:	ID:	LOT #:	EXP. DATE:
Cond	96L177	96L177	12/20
pH 10	96A1078	96A1078	11/21
ORP	96B510	96B510	11/20
pH 4	96L804	96L804	12/21
pH 7	96H1160	96H1160	8/21

Calibration Date: 5/4/20
 RDO: 100% sat. = 104.9%
 PH: 4.00 = 4.10 7.00 = 6.99 10.00 = 9.94
 CONDUCTIVITY: 1159.3
 ORP (mV) 221.2

17120C063767
 HACH 2100Q
 0 = 0.1
 10 = 9.9
 20 = 19.4
 10 = A8199 7/20
 20 = A8215 8/20

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY:
 ORP (mV)

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY:
 ORP (mV)

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY:
 ORP (mV)

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY:
 ORP (mV)



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: Jordan Benford

WATER LEVEL: 8044
WATER LEVEL S/N: 267304

INSTRUMENT S/N: 714293
INSTRUMENT TYPE: SmartROLL
CAL. SOLUTIONS:
ID: pH 4 LOT #: 060046 EXP. DATE: 4/22
ID: pH 7 LOT #: 060808 EXP. DATE: 4/22
ID: pH 10 LOT #: 962648 EXP. DATE: 12/21
ID: ORP LOT #: 060526 EXP. DATE: 1/21
ID: Cond LOT #: 06E438 EXP. DATE: 5/21
ID: LOT #: EXP. DATE:
ID: LOT #: EXP. DATE:

Calibration Date: 4/22/20
RDO: 100% sat. = 100.7
PH: 4.00 = 3.96 7.00 = 6.81 10.00 = 10.01
CONDUCTIVITY: 1576
ORP (mV) 249.2

Calibration Date: 4/23/20
RDO: 100% sat. = 100.1
PH: 4.00 = 4.22 7.00 = 7.17 10.00 = 10.25
CONDUCTIVITY: 1410
ORP (mV) 236.5

Calibration Date: 4/24/20
RDO: 100% sat. = 100.4
PH: 4.00 = 3.97 7.00 = 7.02 10.00 = 10.04
CONDUCTIVITY: 1348
ORP (mV) 235.7

Calibration Date:
RDO: 100% sat. =
PH: 4.00 = 7.00 = 10.00 =
CONDUCTIVITY:
ORP (mV)

Calibration Date:
RDO: 100% sat. =
PH: 4.00 = 7.00 = 10.00 =
CONDUCTIVITY:
ORP (mV)



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: Jordan Beisford

INSTRUMENT S/N: 49743
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: PA H2O
10 NTU - LOT # A0136 EXP. DATE: 9/21
20 NTU - LOT # A0139 EXP. DATE: 9/21

Calibration Date: 9/22/20

Calibration Solution	Instrument Reading	
0.0	<u>0.41</u>	NTU
10.0	<u>9.57</u>	NTU
20.0	<u>20.9</u>	NTU

Calibration Date: 9/23/20

Calibration Solution	Instrument Reading	
0.0	<u>0.47</u>	NTU
10.0	<u>10.5</u>	NTU
20.0	<u>20.7</u>	NTU

Calibration Date: 9/24/20

Calibration Solution	Instrument Reading	
0.0	<u>6.18</u>	NTU
10.0	<u>9.67</u>	NTU
20.0	<u>20.8</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: OF

WATER LEVEL: Solinst M101
WATER LEVEL S/N: 322814

INSTRUMENT S/N: 714344
INSTRUMENT TYPE: SmarTROLL

CAL. SOLUTION/S:	ID:	LOT #:	EXP. DATE:
	COND.	961177	12/20
	pH4	060808	4/22
	pH7	060808	4/22
	pH10	961348	12/21
	ORP	060808	1/21

Calibration Date: 9-21-20
 RDO: 100% sat. = 102.07
 PH: 4.00 = 4.02 7.00 = 7.12 10.00 = 10.07
 CONDUCTIVITY: 1515.3
 ORP (mV) 238.7

Calibration Date: 9-22-20
 RDO: 100% sat. = 96.89%
 PH: 4.00 = 4.01 7.00 = 7.05 10.00 = 10.04
 CONDUCTIVITY: 1358
 ORP (mV) 246.6

Calibration Date: 9-23-20
 RDO: 100% sat. = 98.95%
 PH: 4.00 = 4.11 7.00 = 7.17 10.00 = 10.01
 CONDUCTIVITY: 1423.8
 ORP (mV) 231.3

Calibration Date: 9-24-20
 RDO: 100% sat. = 99.92%
 PH: 4.00 = 4.00 7.00 = 7.02 10.00 = 10.04
 CONDUCTIVITY: 1439
 ORP (mV) 230

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 =
 CONDUCTIVITY:
 ORP (mV)



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: OF

INSTRUMENT S/N: 100400049767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: OE H2O
10 NTU - LOT # A0136 EXP. DATE: 9/12/1
20 NTU - LOT # A0139 EXP. DATE: 9/21

Calibration Date: 9-21-20

Calibration Solution	Instrument Reading	
0.0	0.04	NTU
10.0	9.88	NTU
20.0	19.60	NTU

Calibration Date: 9-22-20

Calibration Solution	Instrument Reading	
0.0	0.04	NTU
10.0	10.1	NTU
20.0	19.9	NTU

Calibration Date: 9-23-20

Calibration Solution	Instrument Reading	
0.0	0.02	NTU
10.0	9.91	NTU
20.0	19.8	NTU

Calibration Date: 9-24-20

Calibration Solution	Instrument Reading	
0.0	0.03	NTU
10.0	9.94	NTU
20.0	19.8	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

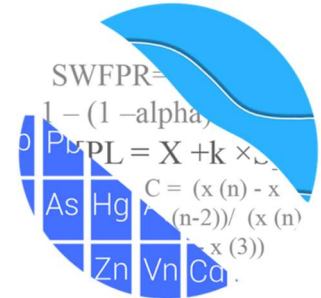
APPENDIX E

Statistical Analysis Packages

GROUNDWATER STATS CONSULTING

August 26, 2020

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
Statistical Analysis – March 2020 1st Semi-Annual Sample Event

Dear Ms. Jurinko,

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 groundwater data for Georgia Power Company's Plant Wansley Ash Pond. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 and at least 8 background samples have been collected at each of the groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** WGWA-1, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, WGWA-18
- **Downgradient wells:** WGWC-8, WGWC-9, WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-19

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The CCR program 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

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).

During the background screening conducted by MacStat Consulting in 2017, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following 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.

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 most recent reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the most recent 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 analysis, in some cases, the earlier portion of data record may require deselecting prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Evaluation 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. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent (Figure D). The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). It was noted that the reporting limit for boron, as provided by the laboratory, has fluctuated over the years from 0.05 mg/L to 0.1 mg/L. The current reporting limit is 0.08 mg/L and, therefore,

is substituted for all historical reporting limits as a result of substitution method discussed earlier.

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 resamples confirm 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. Prediction limit exceedances were noted for Appendix III parameters. A summary table of the background prediction limits and exceedances 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 to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. Statistically significant increasing trends were noted for calcium, chloride, sulfate, and TDS in well WGWC-8. Statistically significant decreasing trends were noted for fluoride in well WGWC-9 and pH in well WGWC-16. A summary of the trend test results follows this letter.

Evaluation 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 such as for barium and radium. 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 have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

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

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the March 2020 sample event for the federal and state rules (Figure G).

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures H and I, respectively). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence intervals follow this letter.

For the federal confidence intervals, the following exceedances were noted:

- Lithium: WGWC-19

For the state confidence intervals, the following exceedances were noted:

- Lithium: WGWC-8, WGWC-9, WGWC-19

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Wansley Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Easton T. Rayner
Groundwater Analyst



Kristina L. Rayner
Groundwater Statistician

100% ND

Date: 7/22/2020 1:34 PM

Plant Wansley Client: Southern Company Data: Wansley AP

Antimony (mg/L)

WGWA-18, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, WGWC-10, WGWC-11, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-19, WGWC-8

Arsenic (mg/L)

WGWC-19

Beryllium (mg/L)

WGWA-18, WGWA-4, WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19

Cadmium (mg/L)

WGWA-1, WGWA-18, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-17, WGWC-19, WGWC-8, WGWC-9

Chromium (mg/L)

WGWA-3, WGWA-7, WGWC-12, WGWC-16, WGWC-17, WGWC-19, WGWC-8

Cobalt (mg/L)

WGWA-3, WGWC-15

Lead (mg/L)

WGWA-18, WGWA-7, WGWC-12, WGWC-15, WGWC-19

Mercury (mg/L)

WGWA-1

Molybdenum (mg/L)

WGWA-2, WGWA-4, WGWC-16, WGWC-8

Selenium (mg/L)

WGWA-6, WGWA-7, WGWC-13, WGWC-17

Thallium (mg/L)

WGWA-18, WGWA-3, WGWA-4, WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19, WGWC-8, WGWC-9

Interwell Prediction Limit - Significant Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Boron (mg/L)	WGWC-16	0.08	n/a	3/18/2020	2	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	3/19/2020	2.2	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	3/19/2020	0.55	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-16	52	n/a	3/18/2020	66	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-8	52	n/a	3/19/2020	79	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-16	6.05	n/a	3/18/2020	93	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-8	6.05	n/a	3/19/2020	98	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-15	0.284	n/a	3/18/2020	0.71	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-19	0.284	n/a	5/4/2020	0.36	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-9	0.284	n/a	3/19/2020	1	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-16	7.96	5.13	3/18/2020	5.08	Yes	134	0	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-16	21	n/a	3/18/2020	120	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-8	21	n/a	3/19/2020	200	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-9	21	n/a	3/19/2020	45	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-15	150	n/a	3/18/2020	160	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-16	150	n/a	3/18/2020	370	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-8	150	n/a	3/19/2020	540	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-9	150	n/a	3/19/2020	160	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...

Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	WGWC-10	0.08	n/a	3/18/2020	0.049J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-11	0.08	n/a	3/18/2020	0.08ND	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-12	0.08	n/a	3/18/2020	0.039J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-13	0.08	n/a	3/19/2020	0.053J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-14A	0.08	n/a	3/19/2020	0.039J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-15	0.08	n/a	3/18/2020	0.071J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-16	0.08	n/a	3/18/2020	2	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-17	0.08	n/a	3/18/2020	0.049J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-19	0.08	n/a	5/4/2020	0.08ND	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	3/19/2020	2.2	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	3/19/2020	0.55	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-10	52	n/a	3/18/2020	7.5	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-11	52	n/a	3/18/2020	1.6	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-12	52	n/a	3/18/2020	14	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-13	52	n/a	3/19/2020	5	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-14A	52	n/a	3/19/2020	0.89	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-15	52	n/a	3/18/2020	30	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-16	52	n/a	3/18/2020	66	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-17	52	n/a	3/18/2020	6.3	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-19	52	n/a	5/4/2020	15	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-8	52	n/a	3/19/2020	79	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-9	52	n/a	3/19/2020	9.3	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-10	6.05	n/a	3/18/2020	1.5	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-11	6.05	n/a	3/18/2020	3.2	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-12	6.05	n/a	3/18/2020	3.2	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-13	6.05	n/a	3/19/2020	1.3	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-14A	6.05	n/a	3/19/2020	1.9	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-15	6.05	n/a	3/18/2020	1.7	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-16	6.05	n/a	3/18/2020	93	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-17	6.05	n/a	3/18/2020	1.5	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-19	6.05	n/a	5/4/2020	2.8	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-8	6.05	n/a	3/19/2020	98	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-9	6.05	n/a	3/19/2020	2.1	No	111	0	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-10	0.284	n/a	3/18/2020	0.052J	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-11	0.284	n/a	3/18/2020	0.1ND	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-12	0.284	n/a	3/18/2020	0.033J	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-13	0.284	n/a	3/19/2020	0.15	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-14A	0.284	n/a	3/19/2020	0.1ND	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-15	0.284	n/a	3/18/2020	0.71	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-16	0.284	n/a	3/18/2020	0.084J	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-17	0.284	n/a	3/18/2020	0.1ND	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-19	0.284	n/a	5/4/2020	0.36	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-8	0.284	n/a	3/19/2020	0.057J	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-9	0.284	n/a	3/19/2020	1	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-10	7.96	5.13	3/18/2020	6.4	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-11	7.96	5.13	3/18/2020	5.89	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-12	7.96	5.13	3/18/2020	6.94	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-13	7.96	5.13	3/19/2020	6.56	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-14A	7.96	5.13	3/19/2020	5.49	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-15	7.96	5.13	3/18/2020	7.73	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-16	7.96	5.13	3/18/2020	5.08	Yes	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-17	7.96	5.13	3/18/2020	6.28	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-19	7.96	5.13	5/4/2020	6.9	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-8	7.96	5.13	3/19/2020	6.43	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-9	7.96	5.13	3/19/2020	6.64	No	134	0	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-10	21	n/a	3/18/2020	2.1	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-11	21	n/a	3/18/2020	1.6	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-12	21	n/a	3/18/2020	12	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-13	21	n/a	3/19/2020	4	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-14A	21	n/a	3/19/2020	1.5	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-15	21	n/a	3/18/2020	17	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-16	21	n/a	3/18/2020	120	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-17	21	n/a	3/18/2020	4.2	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-19	21	n/a	5/4/2020	4.5	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-8	21	n/a	3/19/2020	200	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-9	21	n/a	3/19/2020	45	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-10	150	n/a	3/18/2020	58	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-11	150	n/a	3/18/2020	26	No	111	9.009	n/a	0.000...	NP Inter (normality) ...

Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Total Dissolved Solids (mg/L)	WGWC-12	150	n/a	3/18/2020	73	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-13	150	n/a	3/19/2020	95	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-14A	150	n/a	3/19/2020	18	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-15	150	n/a	3/18/2020	160	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-16	150	n/a	3/18/2020	370	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-17	150	n/a	3/18/2020	98	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-19	150	n/a	5/4/2020	110	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-8	150	n/a	3/19/2020	540	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-9	150	n/a	3/19/2020	160	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...

Trend Test - Significant Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	WGWC-8	12.62	69	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	21.55	81	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.09709	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWC-16	-0.1745	-111	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	15.7	60	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	63.11	74	48	Yes	14	0	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:49 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 (mg/L)	WGWC-16	-0.5536	-22	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-8	0.1578	36	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-9	0.02355	23	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-16	-6.426	-2	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-8	12.62	69	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-16	-16.32	-13	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	21.55	81	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-15	-0.04225	-50	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-19	-0.01651	-45	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.09709	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWC-16	-0.1745	-111	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-16	0	0	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	15.7	60	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-9	1.022	30	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-15	-7.918	-28	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-16	0	3	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	63.11	74	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-9	0	-6	-48	No	14	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 12:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg.N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0022	n/a	n/a	n/a	87	n/a	98.85	n/a	0.01153	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	127	n/a	75.59	n/a	0.001482	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	127	n/a	0	n/a	0.001482	NP Inter(normal...)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	127	n/a	93.7	n/a	0.001482	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	127	n/a	100	n/a	0.001482	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0049	n/a	n/a	n/a	127	n/a	93.7	n/a	0.001482	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	126	n/a	46.83	n/a	0.00156	NP Inter(normal...)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	124	n/a	4.839	n/a	0.001729	NP Inter(normal...)
Fluoride (mg/L)	n/a	0.284	n/a	n/a	n/a	135	n/a	49.63	n/a	0.000...	NP Inter(normal...)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	111	n/a	88.29	n/a	0.003368	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	117	n/a	48.72	n/a	0.002475	NP Inter(normal...)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	111	n/a	87.39	n/a	0.003368	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	126	n/a	88.89	n/a	0.00156	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	127	n/a	92.91	n/a	0.001482	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	127	n/a	94.49	n/a	0.001482	NP Inter(NDs)

WANSLEY AP GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01	0.01
Barium, Total (mg/L)	2		0.062	2	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0049	0.1	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4	10.4
Fluoride, Total (mg/L)	4		0.284	4	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015	0.001
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04	0.009
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1	0.015
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

Highlighted cells indicate background is higher than established limit.

Confidence Interval Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes	16	0	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.002	0.002	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.002	0.006	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.0005	0.01	No	16	75	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	16	87.5	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	16	87.5	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	16	43.75	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0019	0.00095	0.01	No	16	56.25	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.002399	0.00153	0.01	No	16	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001383	0.0007201	0.01	No	16	37.5	No	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00058	0.01	No	16	50	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00055	0.01	No	16	62.5	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	16	81.25	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.0375	0.03062	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.02034	0.01523	2	No	16	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05852	0.04661	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.05072	0.03115	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02237	0.01933	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01846	0.01315	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	16	18.75	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.00098	2	No	16	25	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.0007	2	No	16	25	No	0.01	NP (Cohens/xfrm)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	16	75	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	16	93.75	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002025	0.001431	0.004	No	16	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	16	56.25	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	16	93.75	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.00082	0.000362	0.005	No	16	18.75	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	WGWC-10	0.002394	0.001593	0.1	No	16	18.75	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	16	81.25	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	16	93.75	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001829	0.0008657	0.013	No	16	6.25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00052	0.013	No	16	37.5	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001337	0.0005416	0.013	No	16	6.25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	16	75	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01161	0.006248	0.013	No	16	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-16	0.015	0.00077	0.013	No	16	0	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.00186	0.0008579	0.013	No	16	6.25	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	16	56.25	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0028	0.0011	0.013	No	16	56.25	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	16	93.75	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4506	0.1287	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5856	0.1074	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.612	0.1183	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7925	0.4593	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8713	0.4652	10.4	No	16	6.25	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6722	0.249	10.4	No	16	6.25	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.141	0.9315	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5548	0.04796	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.441	0.1309	10.4	No	15	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.913	1.173	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3833	0.1276	10.4	No	16	6.25	No	0.01	Param.
Fluoride (mg/L)	WGWC-10	0.1841	0.1322	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.1	0.047	4	No	17	70.59	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-12	0.11	0.089	4	No	17	23.53	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	WGWC-13	0.3081	0.2371	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.048	4	No	17	82.35	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.8825	0.7903	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.18	0.084	4	No	17	11.76	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.148	0.09745	4	No	17	5.882	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3845	0.3343	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3781	0.2142	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.58	1.3	4	No	17	0	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00023	0.015	No	14	71.43	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.015	No	14	50	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00017	0.015	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	14	85.71	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	14	85.71	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	14	92.86	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01678	0.008384	0.04	No	16	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	16	81.25	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007805	0.005802	0.04	No	16	6.25	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0025	0.04	No	16	75	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0018	0.04	No	16	62.5	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.006833	0.005229	0.04	No	16	12.5	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01134	0.00728	0.04	No	16	6.25	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005758	0.00464	0.04	No	16	6.25	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes	16	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.01786	0.01266	0.04	No	15	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-9	0.03929	0.03253	0.04	No	16	0	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.000085	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00011	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000086	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	16	87.5	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0011	0.1	No	16	93.75	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.1	No	16	68.75	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.1	No	16	12.5	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	16	93.75	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.00764	0.00364	0.1	No	16	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.006345	0.002894	0.1	No	16	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	16	43.75	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.007015	0.00392	0.1	No	16	0	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01218	0.00699	0.05	No	16	0	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0031	0.05	No	16	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002725	0.002073	0.05	No	16	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	16	93.75	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	16	43.75	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	16	25	No	0.01	NP (normality)

Confidence Interval Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes	16	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.01786	0.01266	0.009	Yes	15	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-9	0.03929	0.03253	0.009	Yes	16	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.002	0.002	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.002	0.006	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.0005	0.01	No	16	75	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	16	87.5	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	16	87.5	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	16	43.75	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0019	0.00095	0.01	No	16	56.25	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.002399	0.00153	0.01	No	16	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001383	0.0007201	0.01	No	16	37.5	No	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00058	0.01	No	16	50	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00055	0.01	No	16	62.5	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	16	81.25	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.0375	0.03062	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.02034	0.01523	2	No	16	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05852	0.04661	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.05072	0.03115	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02237	0.01933	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01846	0.01315	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	16	18.75	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.00098	2	No	16	25	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.0007	2	No	16	25	No	0.01	NP (Cohens/xfrm)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	16	75	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	16	93.75	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002025	0.001431	0.004	No	16	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	16	56.25	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	16	93.75	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.00082	0.000362	0.005	No	16	18.75	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	WGWC-10	0.002394	0.001593	0.1	No	16	18.75	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	16	81.25	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	16	93.75	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001829	0.0008657	0.013	No	16	6.25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00052	0.013	No	16	37.5	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001337	0.0005416	0.013	No	16	6.25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	16	75	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01161	0.006248	0.013	No	16	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-16	0.015	0.00077	0.013	No	16	0	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.00186	0.0008579	0.013	No	16	6.25	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	16	56.25	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0028	0.0011	0.013	No	16	56.25	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	16	93.75	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4506	0.1287	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5856	0.1074	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.612	0.1183	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7925	0.4593	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8713	0.4652	10.4	No	16	6.25	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6722	0.249	10.4	No	16	6.25	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.141	0.9315	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5548	0.04796	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.441	0.1309	10.4	No	15	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.913	1.173	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3833	0.1276	10.4	No	16	6.25	No	0.01	Param.
Fluoride (mg/L)	WGWC-10	0.1841	0.1322	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.1	0.047	4	No	17	70.59	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-12	0.11	0.089	4	No	17	23.53	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	WGWC-13	0.3081	0.2371	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.048	4	No	17	82.35	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.8825	0.7903	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.18	0.084	4	No	17	11.76	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.148	0.09745	4	No	17	5.882	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3845	0.3343	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3781	0.2142	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.58	1.3	4	No	17	0	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00023	0.001	No	14	71.43	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	WGWC-11	0.001	0.00058	0.001	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.001	No	14	50	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00017	0.001	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.001	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.001	No	14	85.71	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.001	No	14	85.71	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.001	No	14	92.86	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01678	0.008384	0.009	No	16	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	16	81.25	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007805	0.005802	0.009	No	16	6.25	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0025	0.009	No	16	75	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0018	0.009	No	16	62.5	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.006833	0.005229	0.009	No	16	12.5	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01134	0.00728	0.009	No	16	6.25	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005758	0.00464	0.009	No	16	6.25	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes	16	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.01786	0.01266	0.009	Yes	15	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-9	0.03929	0.03253	0.009	Yes	16	0	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.000085	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00011	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000086	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	16	87.5	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0011	0.015	No	16	93.75	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.015	No	16	68.75	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.015	No	16	12.5	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	16	93.75	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.00764	0.00364	0.015	No	16	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.006345	0.002894	0.015	No	16	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	16	43.75	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.007015	0.00392	0.015	No	16	0	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01218	0.00699	0.05	No	16	0	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0031	0.05	No	16	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002725	0.002073	0.05	No	16	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	16	93.75	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	16	43.75	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	16	25	No	0.01	NP (normality)

Outlier

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 9:09 PM

WGC-12 Calcium (mg/L)
 WGA-5 Cobalt (mg/L)
 WGA-1 Combined Radium 226 + 228 (pCi/L)
 WGA-6 Combined Radium 226 + 228 (pCi/L)
 WGA-1 Lithium (mg/L)
 WGA-18 Lithium (mg/L)
 WGA-2 Lithium (mg/L)
 WGA-3 Lithium (mg/L)
 WGA-4 Lithium (mg/L)
 WGA-5 Lithium (mg/L)

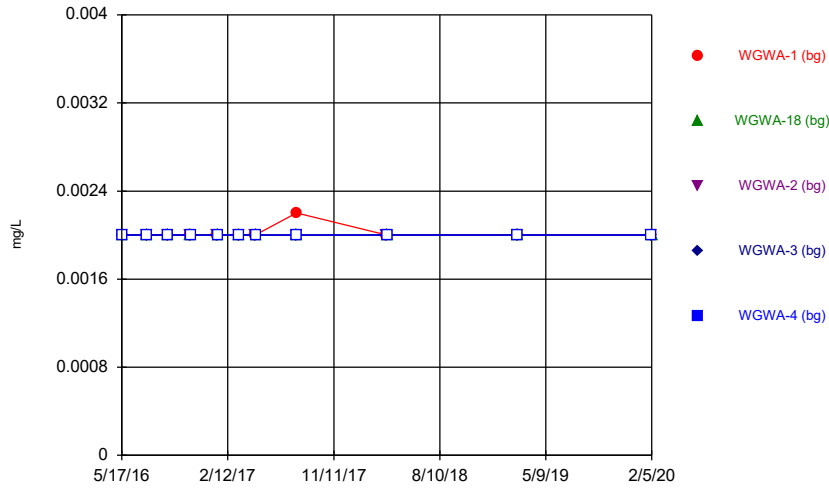
Date	WGC-12 Calcium (mg/L)	WGA-5 Cobalt (mg/L)	WGA-1 Combined Radium 226 + 228 (pCi/L)	WGA-6 Combined Radium 226 + 228 (pCi/L)	WGA-1 Lithium (mg/L)	WGA-18 Lithium (mg/L)	WGA-2 Lithium (mg/L)	WGA-3 Lithium (mg/L)	WGA-4 Lithium (mg/L)	WGA-5 Lithium (mg/L)
5/17/2016				<0.005 (o)	<0.005 (o)	<0.05 (o)				
5/18/2016								<0.005 (o)	<0.05 (o)	<0.005 (o)
7/19/2016		7.25 (o)								
9/14/2016										
1/19/2017	0.064 (O)									
3/14/2017			0.589 (O)							
4/26/2017	3 (o)									

WGA-6 Lithium (mg/L)
 WGA-7 Lithium (mg/L)
 WGA-5 Molybdenum (mg/L)

Date	WGA-6 Lithium (mg/L)	WGA-7 Lithium (mg/L)	WGA-5 Molybdenum (mg/L)
5/17/2016			
5/18/2016	<0.005 (o)	<0.005 (o)	
7/19/2016			
9/14/2016		0.016 (o)	
1/19/2017			
3/14/2017			
4/26/2017			

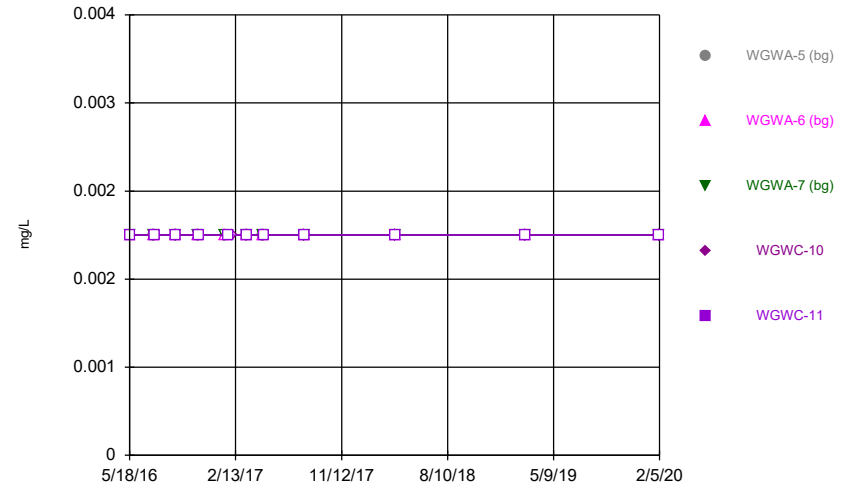
FIGURE A.

Time Series



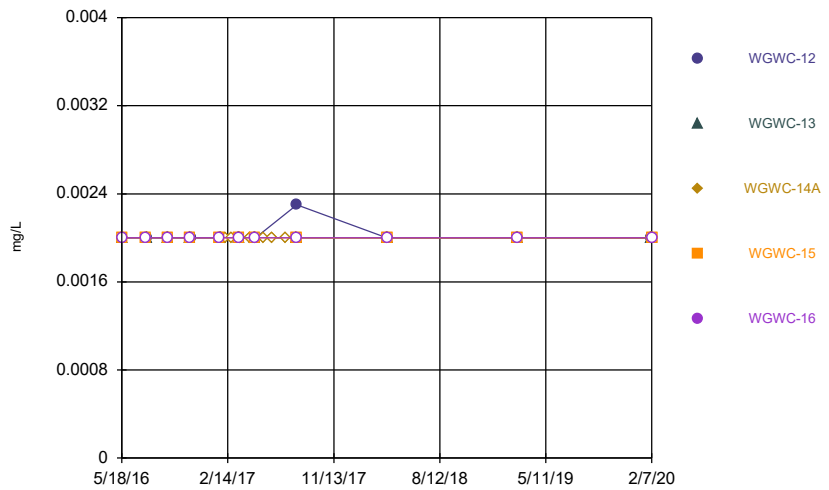
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Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



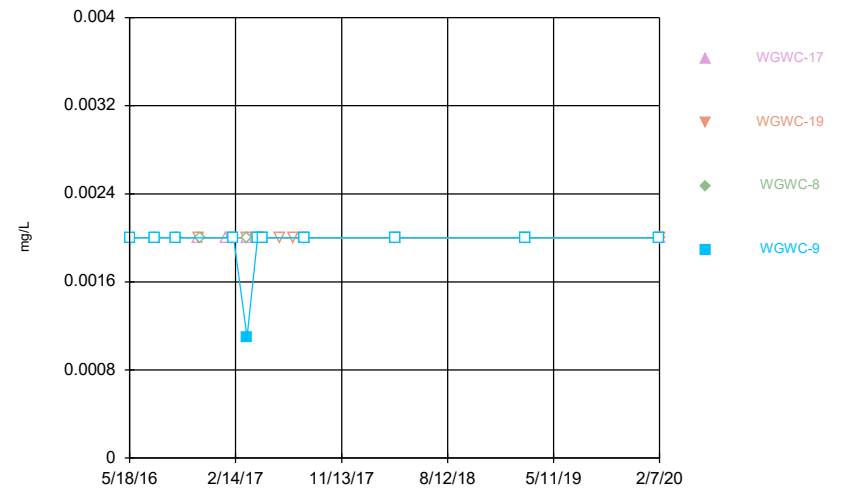
Constituent: Antimony Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Antimony Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Antimony Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.002	<0.002	<0.002		
5/18/2016				<0.002	<0.002
7/19/2016	<0.002	<0.002	<0.002		
7/20/2016				<0.002	<0.002
9/13/2016	<0.002	<0.002	<0.002	<0.002	<0.002
11/9/2016	<0.002	<0.002	<0.002		
11/10/2016				<0.002	<0.002
1/17/2017	<0.002		<0.002		
1/18/2017				<0.002	<0.002
1/19/2017		<0.002			
3/13/2017	<0.002		<0.002		
3/14/2017		<0.002		<0.002	<0.002
4/24/2017	<0.002		<0.002		
4/25/2017		<0.002		<0.002	<0.002
8/8/2017	0.0022 (J)	<0.002	<0.002	<0.002	
8/9/2017					<0.002
3/27/2018	<0.002		<0.002		
3/28/2018		<0.002		<0.002	<0.002
2/25/2019	<0.002		<0.002		
2/26/2019		<0.002		<0.002	<0.002
2/3/2020	<0.002		<0.002		
2/4/2020				<0.002	<0.002
2/5/2020		<0.002			

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.002	<0.002	<0.002	<0.002	
5/19/2016					<0.002
7/19/2016	<0.002	<0.002	<0.002		
7/20/2016				<0.002	<0.002
9/13/2016		<0.002	<0.002		
9/14/2016	<0.002			<0.002	<0.002
11/9/2016		<0.002			
11/10/2016			<0.002		
11/11/2016				<0.002	<0.002
1/18/2017		<0.002	<0.002		
1/19/2017	<0.002				
1/27/2017					<0.002
2/6/2017				<0.002	
3/14/2017	<0.002	<0.002	<0.002		
3/15/2017				<0.002	<0.002
4/25/2017	<0.002	<0.002	<0.002		
4/26/2017				<0.002	<0.002
8/8/2017		<0.002	<0.002		
8/9/2017	<0.002				
8/10/2017				<0.002	<0.002
3/28/2018	<0.002	<0.002	<0.002		
3/29/2018					<0.002
3/30/2018				<0.002	
2/26/2019	<0.002	<0.002	<0.002		
2/27/2019				<0.002	<0.002
2/4/2020	<0.002	<0.002			
2/5/2020			<0.002	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.002	<0.002
5/19/2016	<0.002	<0.002			
7/19/2016				<0.002	<0.002
7/20/2016	<0.002	<0.002			
9/14/2016	<0.002	<0.002		<0.002	<0.002
11/10/2016		<0.002		<0.002	<0.002
11/11/2016	<0.002				
1/24/2017				<0.002	<0.002
1/27/2017	<0.002	<0.002			
2/8/2017			<0.002		
2/23/2017			<0.002		
3/14/2017				<0.002	
3/15/2017	<0.002	<0.002			<0.002
3/17/2017			<0.002		
4/11/2017			<0.002		
4/25/2017				<0.002	<0.002
4/26/2017	<0.002	<0.002	<0.002		
5/17/2017			<0.002		
6/7/2017			<0.002		
7/11/2017			<0.002		
8/9/2017		<0.002		<0.002	<0.002
8/10/2017	0.0023 (J)				
3/29/2018	<0.002	<0.002	<0.002		<0.002
3/30/2018				<0.002	
2/27/2019	<0.002	<0.002	<0.002	<0.002	<0.002
2/5/2020	<0.002	<0.002	<0.002		
2/7/2020				<0.002	<0.002

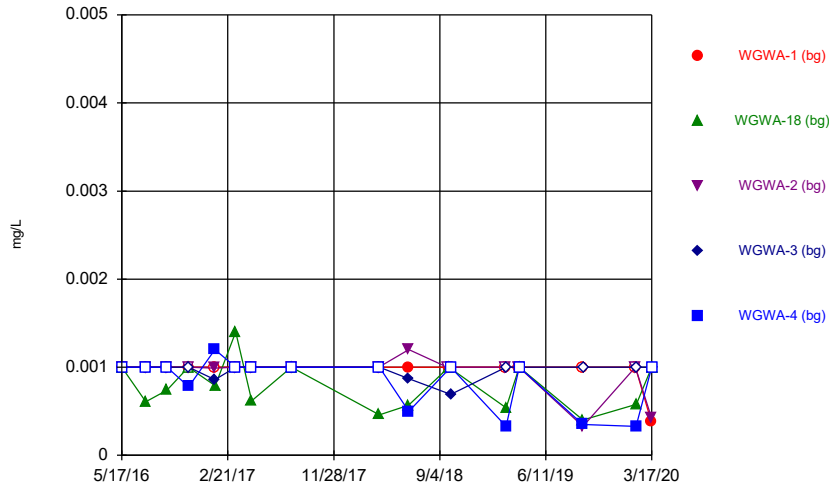
Time Series

Constituent: Antimony (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

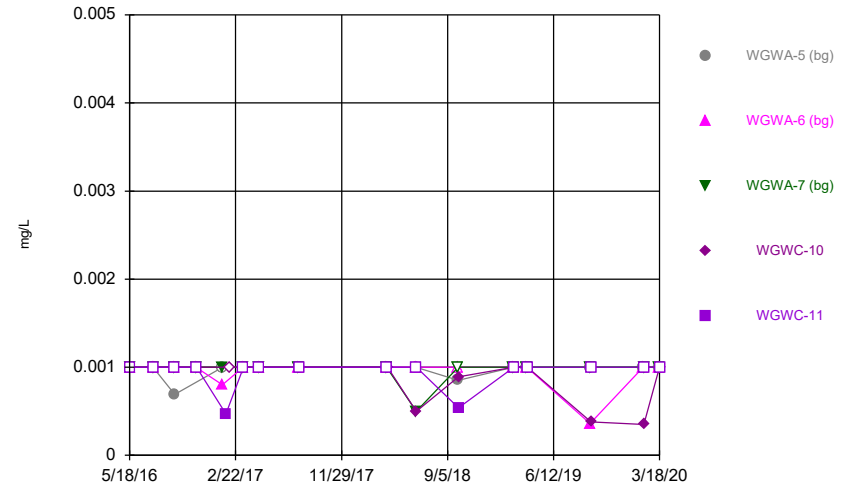
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.002			
5/19/2016			<0.002	<0.002
7/20/2016	<0.002		<0.002	<0.002
9/14/2016	<0.002			<0.002
9/15/2016			<0.002	
11/10/2016	<0.002			
11/11/2016		<0.002		
11/14/2016			<0.002	
1/20/2017	<0.002			
2/6/2017		<0.002	<0.002	
2/9/2017				<0.002
3/14/2017	<0.002			
3/15/2017		<0.002	<0.002	0.0011 (J)
4/11/2017		<0.002		<0.002
4/25/2017	<0.002			
4/26/2017		<0.002	<0.002	<0.002
6/7/2017		<0.002		
7/11/2017		<0.002		
8/9/2017	<0.002			
8/10/2017		<0.002	<0.002	<0.002
3/29/2018		<0.002	<0.002	<0.002
3/30/2018	<0.002			
2/26/2019	<0.002			
2/27/2019			<0.002	
2/28/2019		<0.002		<0.002
2/5/2020				<0.002
2/7/2020	<0.002	<0.002	<0.002	

Time Series



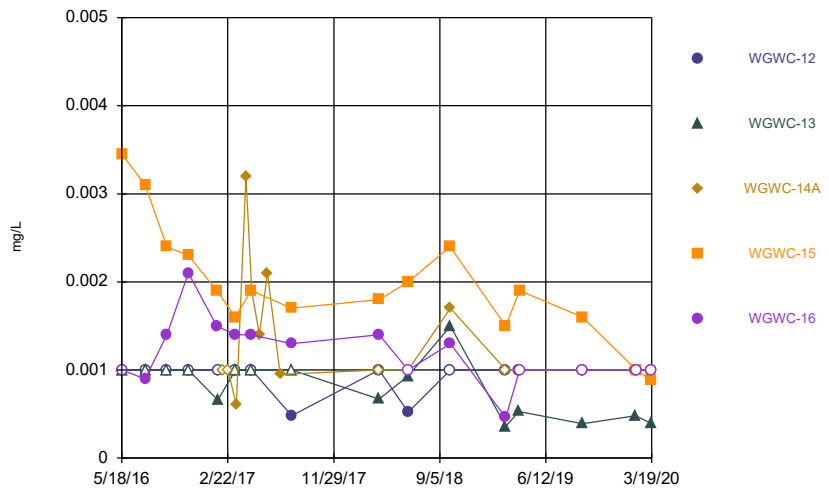
Constituent: Arsenic Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



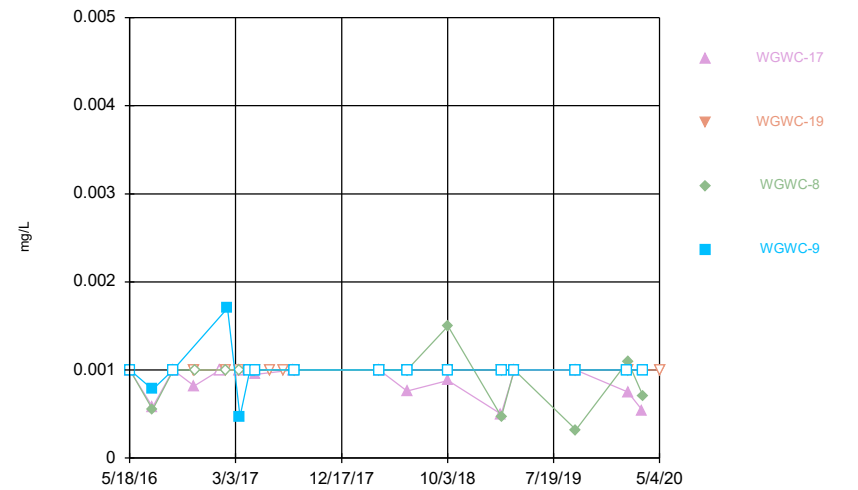
Constituent: Arsenic Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Arsenic Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Arsenic Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.001	<0.001	<0.001		
5/18/2016				<0.001	<0.001
7/19/2016	<0.001	0.00061 (J)	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016	<0.001	0.00074 (J)	<0.001	<0.001	<0.001
11/9/2016	<0.001	<0.001	<0.001		
11/10/2016				<0.001	0.00078 (J)
1/17/2017	<0.001		0.00099 (J)		
1/18/2017				0.00086 (J)	0.0012 (J)
1/19/2017		0.00079 (J)			
3/13/2017	<0.001		<0.001		
3/14/2017		0.0014		<0.001	<0.001
4/24/2017	<0.001		<0.001		
4/25/2017		0.00062 (J)		<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001	
8/9/2017					<0.001
3/27/2018	<0.001		<0.001		
3/28/2018		0.00046 (J)		<0.001	<0.001
6/13/2018	0.001 (J)	0.00057 (J)			
6/14/2018			0.0012 (J)	0.00087 (J)	0.0005 (J)
9/24/2018			<0.001		
9/27/2018	<0.001				
9/28/2018		<0.001			
10/3/2018				0.00069 (J)	<0.001
2/25/2019	<0.001		<0.001		
2/26/2019		0.00054 (J)		<0.001	0.00033 (J)
4/1/2019	<0.001		<0.001		
4/2/2019		<0.001		<0.001	<0.001
9/16/2019	<0.001				
9/17/2019		0.0004 (J)	0.00033 (J)		0.00035 (J)
9/18/2019				<0.001	
2/3/2020	<0.001		<0.001		
2/4/2020				<0.001	0.00033 (J)
2/5/2020		0.00058 (J)			
3/16/2020	0.00038 (J)		0.00043 (J)		
3/17/2020		<0.001		<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.001	<0.001	<0.001	<0.001	
5/19/2016					<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016		<0.001	<0.001		
9/14/2016	0.00069 (J)			<0.001	<0.001
11/9/2016		<0.001			
11/10/2016			<0.001		
11/11/2016				<0.001	<0.001
1/18/2017		0.0008 (J)	0.001 (J)		
1/19/2017	<0.001				
1/27/2017					0.00047 (J)
2/6/2017				<0.001	
3/14/2017	<0.001	<0.001	<0.001		
3/15/2017				<0.001	<0.001
4/25/2017	<0.001	<0.001	<0.001		
4/26/2017				<0.001	<0.001
8/8/2017		<0.001	<0.001		
8/9/2017	<0.001				
8/10/2017				<0.001	<0.001
3/28/2018	<0.001	<0.001	<0.001		
3/29/2018					<0.001
3/30/2018				<0.001	
6/13/2018	<0.001	<0.001			
6/14/2018			0.0005 (J)	0.0005 (J)	<0.001
10/2/2018		<0.001			
10/3/2018	0.00085 (J)		<0.001		
10/4/2018				0.00089 (J)	0.00054 (J)
2/26/2019	<0.001	<0.001	<0.001		
2/27/2019				<0.001	<0.001
4/2/2019	<0.001	<0.001	<0.001		
4/3/2019					<0.001
4/4/2019				<0.001	
9/16/2019	<0.001	0.00036 (J)			
9/18/2019			<0.001		
9/19/2019				0.00038 (J)	<0.001
2/4/2020	<0.001	<0.001			
2/5/2020			<0.001	0.00035 (J)	<0.001
3/17/2020	<0.001	<0.001	<0.001		
3/18/2020				<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.00345	<0.001
5/19/2016	<0.001	<0.001			
7/19/2016				0.0031	0.0009 (J)
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	<0.001		0.0024	0.0014
11/10/2016		<0.001		0.0023	0.0021
11/11/2016	<0.001				
1/24/2017				0.0019	0.0015
1/27/2017	<0.001	0.00066 (J)			
2/8/2017			<0.001		
2/23/2017			<0.001		
3/14/2017				0.0016	
3/15/2017	<0.001	<0.001			0.0014
3/17/2017			0.0006 (J)		
4/11/2017			0.0032		
4/25/2017				0.0019	0.0014
4/26/2017	<0.001	<0.001	0.0019		
5/17/2017			0.0014		
6/7/2017			0.0021		
7/11/2017			0.00095 (J)		
8/9/2017		<0.001		0.0017	0.0013
8/10/2017	0.00048 (J)				
3/29/2018	<0.001	0.00067 (J)	<0.001		0.0014
3/30/2018				0.0018	
6/14/2018	0.00052 (J)	0.00093 (J)	<0.001	0.002	<0.001
10/3/2018				0.0024	
10/4/2018	<0.001	0.0015	0.0017		0.0013
2/27/2019	<0.001	0.00036 (J)	<0.001	0.0015	0.00046 (J)
4/3/2019	<0.001	0.00053 (J)	<0.001		
4/4/2019				0.0019	<0.001
9/18/2019		0.00039 (J)	<0.001	0.0016	<0.001
9/19/2019	<0.001				
2/5/2020	<0.001	0.00048 (J)	<0.001		
2/7/2020				0.001	<0.001
3/18/2020	<0.001			0.00088 (J)	<0.001
3/19/2020		0.00039 (J)	<0.001		

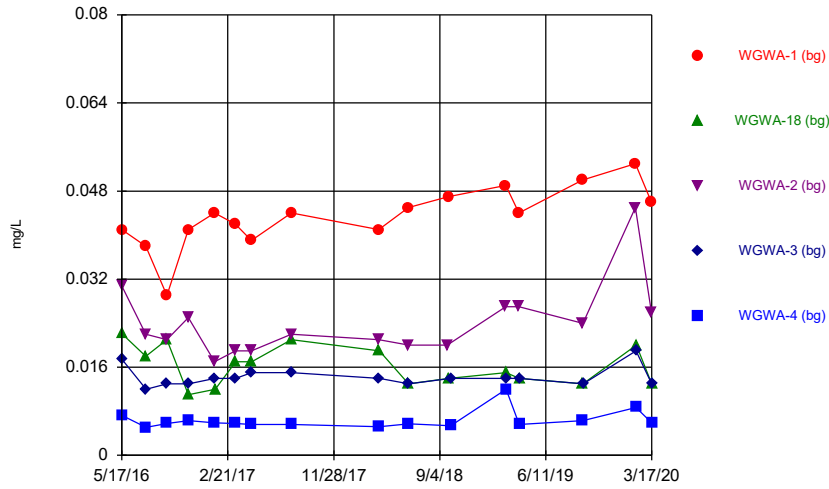
Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

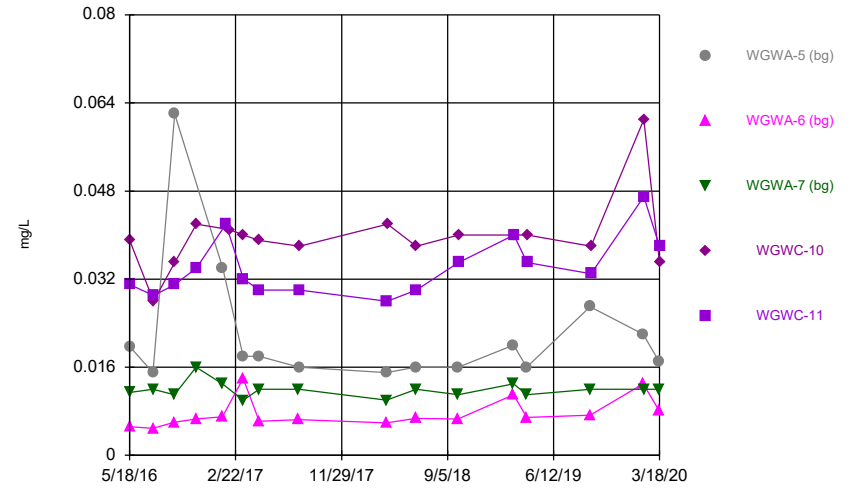
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001			
5/19/2016			<0.001	<0.001
7/20/2016	0.00058 (J)		0.00055 (J)	0.00078 (J)
9/14/2016	<0.001			<0.001
9/15/2016			<0.001	
11/10/2016	0.00082 (J)			
11/11/2016		<0.001		
11/14/2016			<0.001	
1/20/2017	<0.001			
2/6/2017		<0.001	<0.001	
2/9/2017				0.0017
3/14/2017	<0.001			
3/15/2017		<0.001	<0.001	0.00047 (J)
4/11/2017		<0.001		<0.001
4/25/2017	0.00095 (J)			
4/26/2017		<0.001	<0.001	<0.001
6/7/2017		<0.001		
7/11/2017		<0.001		
8/9/2017	<0.001			
8/10/2017		<0.001	<0.001	<0.001
3/29/2018		<0.001	<0.001	<0.001
3/30/2018	<0.001			
6/14/2018	0.00076 (J)	<0.001	<0.001	<0.001
10/4/2018	0.00088 (J)	<0.001	0.0015	<0.001
2/26/2019	0.0005 (J)			
2/27/2019			0.00047 (J)	
2/28/2019		<0.001		<0.001
4/2/2019		<0.001		
4/3/2019			<0.001	<0.001
4/4/2019	<0.001			
9/18/2019	<0.001	<0.001		
9/19/2019			0.00032 (J)	<0.001
2/5/2020				<0.001
2/7/2020	0.00075 (J)	<0.001	0.0011	
3/18/2020	0.00054 (J)			
3/19/2020			0.00071 (J)	<0.001
5/4/2020		<0.001		

Time Series



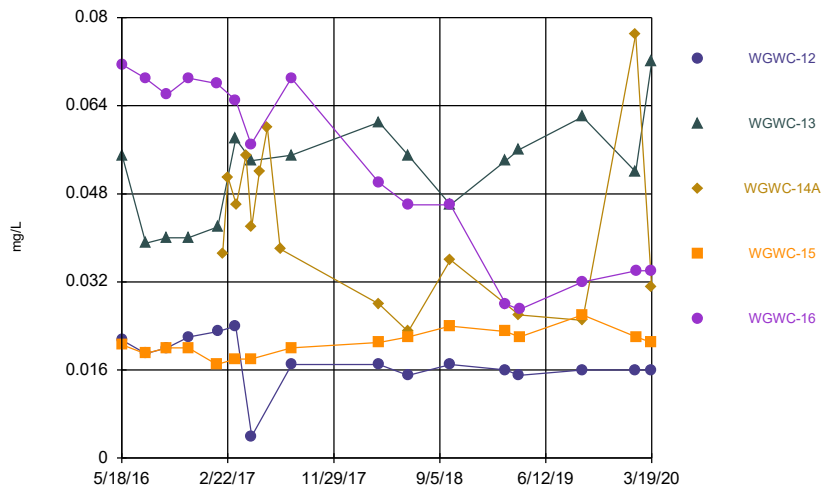
Constituent: Barium Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Barium Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

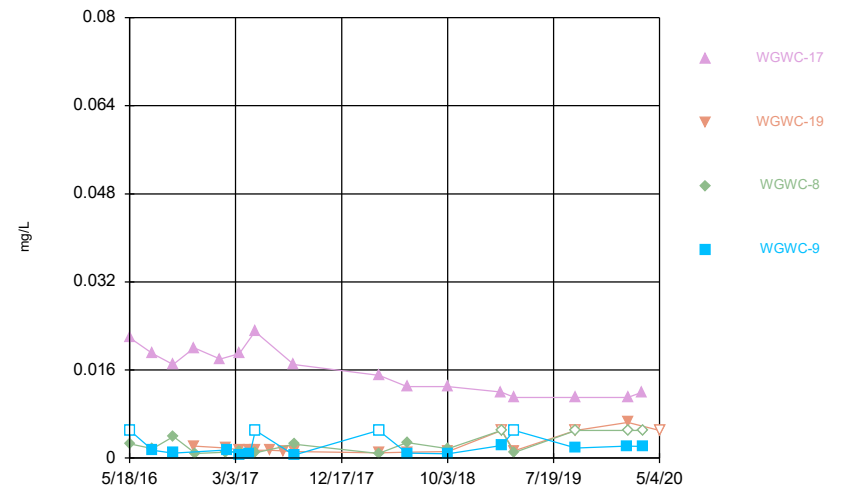
Time Series



Constituent: Barium Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Barium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	0.041	0.0221	0.0308		
5/18/2016				0.0174	0.00723
7/19/2016	0.038	0.018	0.022		
7/20/2016				0.012	0.0051
9/13/2016	0.029	0.021	0.021	0.013	0.0058
11/9/2016	0.041	0.011	0.025		
11/10/2016				0.013	0.0063
1/17/2017	0.044		0.017		
1/18/2017				0.014	0.0059
1/19/2017		0.012			
3/13/2017	0.042		0.019		
3/14/2017		0.017		0.014	0.0058
4/24/2017	0.039		0.019		
4/25/2017		0.017		0.015	0.0056
8/8/2017	0.044	0.021	0.022	0.015	
8/9/2017					0.0056
3/27/2018	0.041		0.021		
3/28/2018		0.019		0.014	0.0052
6/13/2018	0.045	0.013			
6/14/2018			0.02	0.013	0.0057
9/24/2018			0.02		
9/27/2018	0.047				
9/28/2018		0.014			
10/3/2018				0.014	0.0054
2/25/2019	0.049		0.027		
2/26/2019		0.015		0.014	0.012
4/1/2019	0.044		0.027		
4/2/2019		0.014		0.014	0.0056
9/16/2019	0.05				
9/17/2019		0.013	0.024		0.0063 (J)
9/18/2019				0.013	
2/3/2020	0.053		0.045		
2/4/2020				0.019	0.0087 (J)
2/5/2020		0.02			
3/16/2020	0.046		0.026		
3/17/2020		0.013		0.013	0.0059 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	0.0198	0.00518	0.0114	0.0391	
5/19/2016					0.031
7/19/2016	0.015	0.0049	0.012		
7/20/2016				0.028	0.029
9/13/2016		0.006	0.011		
9/14/2016	0.062			0.035	0.031
11/9/2016		0.0066			
11/10/2016			0.016		
11/11/2016				0.042	0.034
1/18/2017		0.007	0.013		
1/19/2017	0.034				
1/27/2017					0.042
2/6/2017				0.041	
3/14/2017	0.018	0.014	0.01		
3/15/2017				0.04	0.032
4/25/2017	0.018	0.0062	0.012		
4/26/2017				0.039	0.03
8/8/2017		0.0065	0.012		
8/9/2017	0.016				
8/10/2017				0.038	0.03
3/28/2018	0.015	0.0059	0.01		
3/29/2018					0.028
3/30/2018				0.042	
6/13/2018	0.016	0.0067			
6/14/2018			0.012	0.038	0.03
10/2/2018		0.0066			
10/3/2018	0.016		0.011		
10/4/2018				0.04	0.035
2/26/2019	0.02	0.011	0.013		
2/27/2019				0.04	0.04
4/2/2019	0.016	0.0069	0.011		
4/3/2019					0.035
4/4/2019				0.04	
9/16/2019	0.027	0.0073 (J)			
9/18/2019			0.012		
9/19/2019				0.038	0.033
2/4/2020	0.022	0.013			
2/5/2020			0.012	0.061	0.047
3/17/2020	0.017	0.0081 (J)	0.012		
3/18/2020				0.035	0.038

Time Series

Constituent: Barium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.0206	0.0715
5/19/2016	0.0214	0.055			
7/19/2016				0.019	0.069
7/20/2016	0.019	0.039			
9/14/2016	0.02	0.04		0.02	0.066
11/10/2016		0.04		0.02	0.069
11/11/2016	0.022				
1/24/2017				0.017	0.068
1/27/2017	0.023	0.042			
2/8/2017			0.037		
2/23/2017			0.051		
3/14/2017				0.018	
3/15/2017	0.024	0.058			0.065
3/17/2017			0.046		
4/11/2017			0.055		
4/25/2017				0.018	0.057
4/26/2017	0.004	0.054	0.042		
5/17/2017			0.052		
6/7/2017			0.06		
7/11/2017			0.038		
8/9/2017		0.055		0.02	0.069
8/10/2017	0.017				
3/29/2018	0.017	0.061	0.028		0.05
3/30/2018				0.021	
6/14/2018	0.015	0.055	0.023	0.022	0.046
10/3/2018				0.024	
10/4/2018	0.017	0.046	0.036		0.046
2/27/2019	0.016	0.054	0.028	0.023	0.028
4/3/2019	0.015	0.056	0.026		
4/4/2019				0.022	0.027
9/18/2019		0.062	0.025	0.026	0.032
9/19/2019	0.016				
2/5/2020	0.016	0.052	0.077		
2/7/2020				0.022	0.034
3/18/2020	0.016			0.021	0.034
3/19/2020		0.072	0.031		

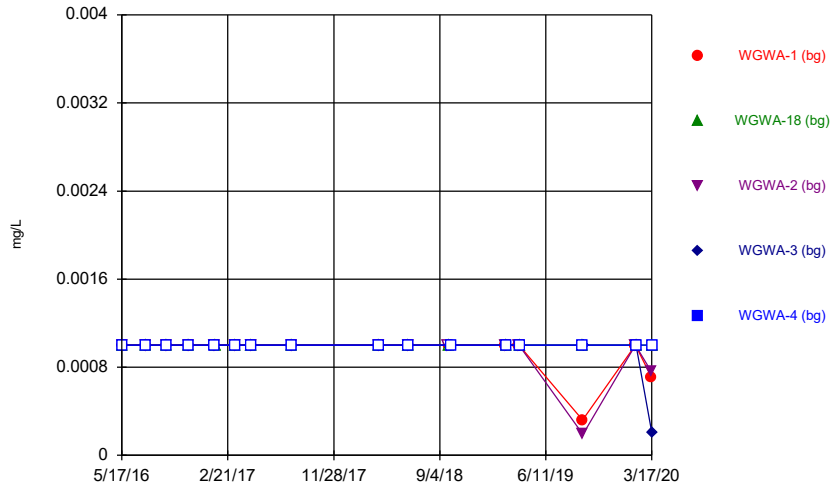
Time Series

Constituent: Barium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

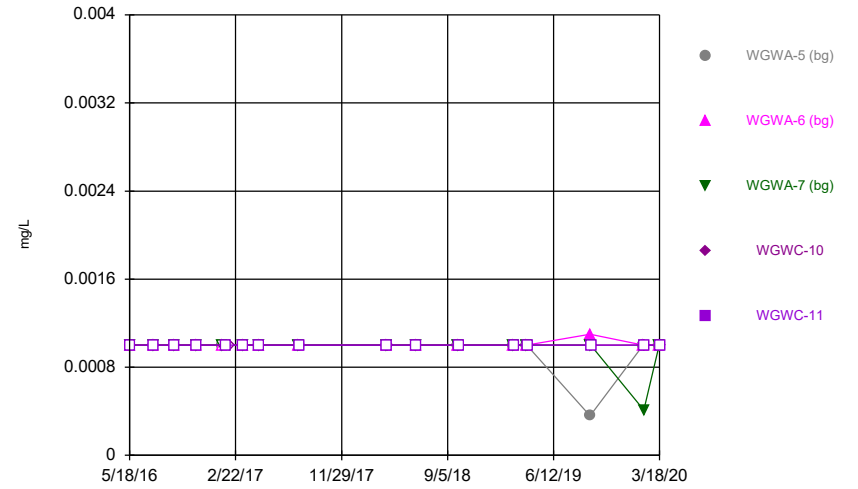
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.0219			
5/19/2016			0.0026	<0.01
7/20/2016	0.019		0.0017 (J)	0.0014 (J)
9/14/2016	0.017			0.00092 (J)
9/15/2016			0.0039	
11/10/2016	0.02			
11/11/2016		0.0022 (J)		
11/14/2016			0.00085 (J)	
1/20/2017	0.018			
2/6/2017		0.0018 (J)	0.0011 (J)	
2/9/2017				0.0015 (J)
3/14/2017	0.019			
3/15/2017		0.0015 (J)	0.0013 (J)	0.00054 (J)
4/11/2017		0.0014 (J)		0.0007 (J)
4/25/2017	0.023			
4/26/2017		0.0014 (J)	0.00098 (J)	<0.01
6/7/2017		0.0014 (J)		
7/11/2017		0.0013 (J)		
8/9/2017	0.017			
8/10/2017		0.0012 (J)	0.0025	0.00053 (J)
3/29/2018		0.00097 (J)	0.00085 (J)	<0.01
3/30/2018	0.015			
6/14/2018	0.013	0.0011 (J)	0.0028	0.00088 (J)
10/4/2018	0.013	0.0012 (J)	0.0017 (J)	0.00076 (J)
2/26/2019	0.012			
2/27/2019			<0.01	
2/28/2019		<0.01		0.0023 (J)
4/2/2019		0.0013 (J)		
4/3/2019			0.001 (J)	<0.01
4/4/2019	0.011			
9/18/2019	0.011	<0.01		
9/19/2019			<0.01	0.0018 (J)
2/5/2020				0.0022 (J)
2/7/2020	0.011	0.0065 (J)	<0.01	
3/18/2020	0.012			
3/19/2020			<0.01	0.0021 (J)
5/4/2020		<0.01		

Time Series



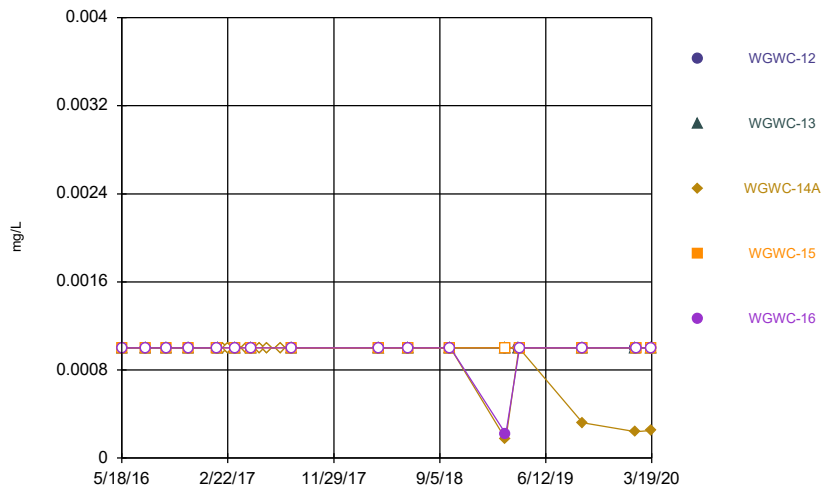
Constituent: Beryllium Analysis Run 7/22/2020 12:02 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



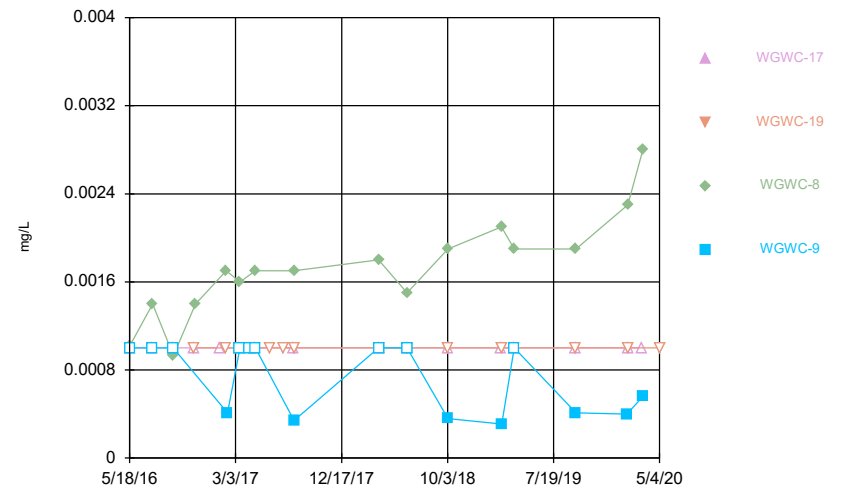
Constituent: Beryllium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Beryllium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Beryllium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.001	<0.001	<0.001		
5/18/2016				<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001
11/9/2016	<0.001	<0.001	<0.001		
11/10/2016				<0.001	<0.001
1/17/2017	<0.001		<0.001		
1/18/2017				<0.001	<0.001
1/19/2017		<0.001			
3/13/2017	<0.001		<0.001		
3/14/2017		<0.001		<0.001	<0.001
4/24/2017	<0.001		<0.001		
4/25/2017		<0.001		<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001	
8/9/2017					<0.001
3/27/2018	<0.001		<0.001		
3/28/2018		<0.001		<0.001	<0.001
6/13/2018	<0.001	<0.001			
6/14/2018			<0.001	<0.001	<0.001
9/24/2018			<0.001		
9/27/2018	<0.001				
9/28/2018		<0.001			
10/3/2018				<0.001	<0.001
2/25/2019	<0.001		<0.001		
2/26/2019		<0.001		<0.001	<0.001
4/1/2019	<0.001		<0.001		
4/2/2019		<0.001		<0.001	<0.001
9/16/2019	0.00032 (J)				
9/17/2019		<0.001	0.00019 (J)		<0.001
9/18/2019				<0.001	
2/3/2020	<0.001		<0.001		
2/4/2020				<0.001	<0.001
2/5/2020		<0.001			
3/16/2020	0.00071 (J)		0.00076 (J)		
3/17/2020		<0.001		0.00021 (J)	<0.001

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.001	<0.001	<0.001	<0.001	
5/19/2016					<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016		<0.001	<0.001		
9/14/2016	<0.001			<0.001	<0.001
11/9/2016		<0.001			
11/10/2016			<0.001		
11/11/2016				<0.001	<0.001
1/18/2017		<0.001	<0.001		
1/19/2017	<0.001				
1/27/2017					<0.001
2/6/2017				<0.001	
3/14/2017	<0.001	<0.001	<0.001		
3/15/2017				<0.001	<0.001
4/25/2017	<0.001	<0.001	<0.001		
4/26/2017				<0.001	<0.001
8/8/2017		<0.001	<0.001		
8/9/2017	<0.001				
8/10/2017				<0.001	<0.001
3/28/2018	<0.001	<0.001	<0.001		
3/29/2018					<0.001
3/30/2018				<0.001	
6/13/2018	<0.001	<0.001			
6/14/2018			<0.001	<0.001	<0.001
10/2/2018		<0.001			
10/3/2018	<0.001		<0.001		
10/4/2018				<0.001	<0.001
2/26/2019	<0.001	<0.001	<0.001		
2/27/2019				<0.001	<0.001
4/2/2019	<0.001	<0.001	<0.001		
4/3/2019					<0.001
4/4/2019				<0.001	
9/16/2019	0.00036 (J)	0.0011			
9/18/2019			<0.001		
9/19/2019				<0.001	<0.001
2/4/2020	<0.001	<0.001			
2/5/2020			0.00041 (J)	<0.001	<0.001
3/17/2020	<0.001	<0.001	<0.001		
3/18/2020				<0.001	<0.001

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.001	<0.001
5/19/2016	<0.001	<0.001			
7/19/2016				<0.001	<0.001
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	<0.001		<0.001	<0.001
11/10/2016		<0.001		<0.001	<0.001
11/11/2016	<0.001				
1/24/2017				<0.001	<0.001
1/27/2017	<0.001	<0.001			
2/8/2017			<0.001		
2/23/2017			<0.001		
3/14/2017				<0.001	
3/15/2017	<0.001	<0.001			<0.001
3/17/2017			<0.001		
4/11/2017			<0.001		
4/25/2017				<0.001	<0.001
4/26/2017	<0.001	<0.001	<0.001		
5/17/2017			<0.001		
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017		<0.001		<0.001	<0.001
8/10/2017	<0.001				
3/29/2018	<0.001	<0.001	<0.001		<0.001
3/30/2018				<0.001	
6/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001
10/3/2018				<0.001	
10/4/2018	<0.001	<0.001	<0.001		<0.001
2/27/2019	<0.001	<0.001	0.00017 (J)	<0.001	0.00022 (J)
4/3/2019	<0.001	<0.001	<0.001		
4/4/2019				<0.001	<0.001
9/18/2019		<0.001	0.00032 (J)	<0.001	<0.001
9/19/2019	<0.001				
2/5/2020	<0.001	<0.001	0.00024 (J)		
2/7/2020				<0.001	<0.001
3/18/2020	<0.001			<0.001	<0.001
3/19/2020		<0.001	0.00025 (J)		

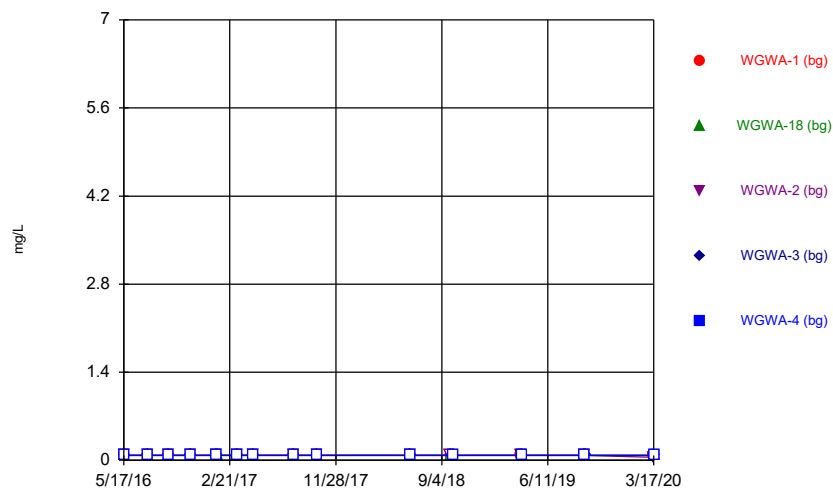
Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

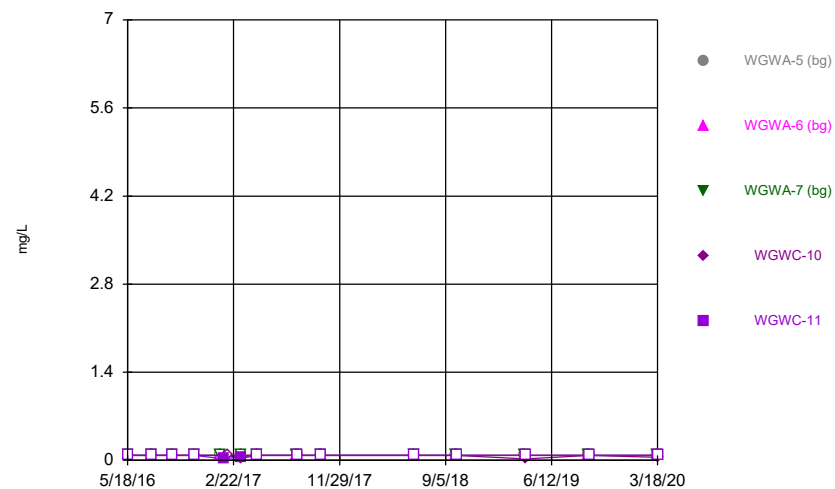
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001			
5/19/2016			0.00102 (J)	<0.001
7/20/2016	<0.001		0.0014 (J)	<0.001
9/14/2016	<0.001			<0.001
9/15/2016			0.00093 (J)	
11/10/2016	<0.001			
11/11/2016		<0.001		
11/14/2016			0.0014 (J)	
1/20/2017	<0.001			
2/6/2017		<0.001	0.0017 (J)	
2/9/2017				0.00041 (J)
3/14/2017	<0.001			
3/15/2017		<0.001	0.0016 (J)	<0.001
4/11/2017		<0.001		<0.001
4/25/2017	<0.001			
4/26/2017		<0.001	0.0017 (J)	<0.001
6/7/2017		<0.001		
7/11/2017		<0.001		
8/9/2017	<0.001			
8/10/2017		<0.001	0.0017 (J)	0.00034 (J)
3/29/2018		<0.001	0.0018 (J)	<0.001
3/30/2018	<0.001			
6/14/2018	<0.001	<0.001	0.0015 (J)	<0.001
10/4/2018	<0.001	<0.001	0.0019 (J)	0.00036 (J)
2/26/2019	<0.001			
2/27/2019			0.0021 (J)	
2/28/2019		<0.001		0.00031 (J)
4/2/2019		<0.001		
4/3/2019			0.0019 (J)	<0.001
4/4/2019	<0.001			
9/18/2019	<0.001	<0.001		
9/19/2019			0.0019	0.00041 (J)
2/5/2020				0.0004 (J)
2/7/2020	<0.001	<0.001	0.0023	
3/18/2020	<0.001			
3/19/2020			0.0028	0.00056 (J)
5/4/2020		<0.001		

Time Series



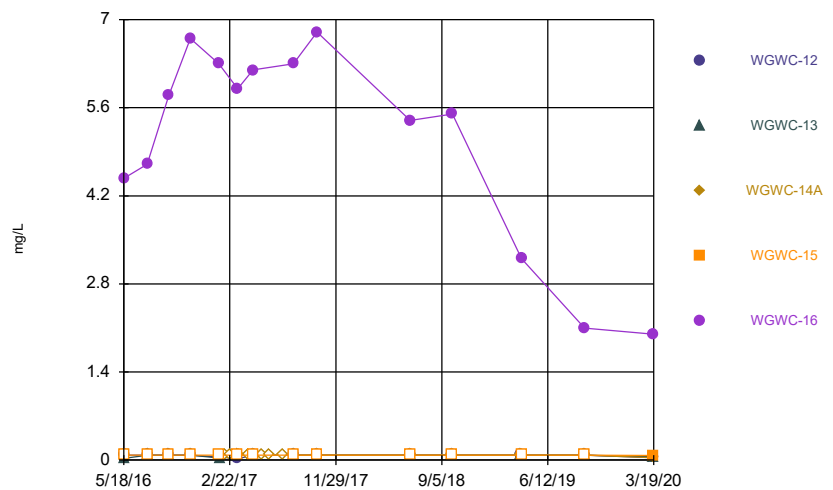
Constituent: Boron Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



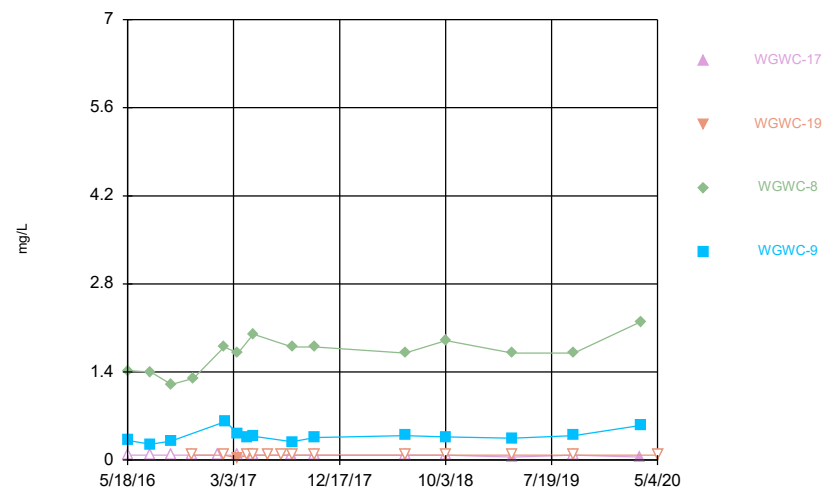
Constituent: Boron Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Boron Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Boron Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Boron (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.08	<0.08	<0.08		
5/18/2016				<0.08	<0.08
7/19/2016	<0.08	<0.08	<0.08		
7/20/2016				<0.08	<0.08
9/13/2016	<0.08	<0.08	<0.08	<0.08	<0.08
11/9/2016	<0.08	<0.08	<0.08		
11/10/2016				<0.08	<0.08
1/17/2017	<0.08		<0.08		
1/18/2017				<0.08	<0.08
1/19/2017		<0.08			
3/13/2017	<0.08		<0.08		
3/14/2017		<0.08		<0.08	<0.08
4/24/2017	<0.08		<0.08		
4/25/2017		<0.08		<0.08	<0.08
8/8/2017	<0.08	<0.08	<0.08	<0.08	
8/9/2017					<0.08
10/10/2017	<0.08		<0.08		
10/11/2017		<0.08		<0.08	<0.08
6/13/2018	<0.08	<0.08			
6/14/2018			<0.08	<0.08	<0.08
9/24/2018			<0.08		
9/27/2018	<0.08				
9/28/2018		<0.08			
10/3/2018				<0.08	<0.08
4/1/2019	<0.08		<0.08		
4/2/2019		<0.08		<0.08	<0.08
9/16/2019	<0.08				
9/17/2019		<0.08	<0.08		<0.08
9/18/2019				<0.08	
3/16/2020	<0.08		0.048 (J)		
3/17/2020		<0.08		<0.08	<0.08

Time Series

Constituent: Boron (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.08	<0.08	<0.08	<0.08	
5/19/2016					<0.08
7/19/2016	<0.08	<0.08	<0.08		
7/20/2016				<0.08	<0.08
9/13/2016		<0.08	<0.08		
9/14/2016	<0.08			<0.08	<0.08
11/9/2016		<0.08			
11/10/2016			<0.08		
11/11/2016				<0.08	<0.08
1/18/2017		<0.08	<0.08		
1/19/2017	<0.08				
1/27/2017					0.021 (J)
2/6/2017				<0.08	
3/14/2017	<0.08	<0.08	<0.08		
3/15/2017				0.032 (J)	0.058
4/25/2017	<0.08	<0.08	<0.08		
4/26/2017				<0.08	<0.08
8/8/2017		<0.08	<0.08		
8/9/2017	<0.08				
8/10/2017				<0.08	<0.08
10/11/2017	<0.08	<0.08	<0.08		
10/12/2017				<0.08	<0.08
6/13/2018	<0.08	<0.08			
6/14/2018			<0.08	<0.08	<0.08
10/2/2018		<0.08			
10/3/2018	<0.08		<0.08		
10/4/2018				<0.08	<0.08
4/2/2019	<0.08	<0.08	<0.08		
4/3/2019					<0.08
4/4/2019				0.024 (J)	
9/16/2019	<0.08	<0.08			
9/18/2019			<0.08		
9/19/2019				<0.08	<0.08
3/17/2020	<0.08	<0.08	<0.08		
3/18/2020				0.049 (J)	<0.08

Time Series

Constituent: Boron (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.08	4.48
5/19/2016	<0.08	0.0252 (J)			
7/19/2016				<0.08	4.7
7/20/2016	<0.08	<0.08			
9/14/2016	<0.08	<0.08		<0.08	5.8
11/10/2016		<0.08		<0.08	6.7
11/11/2016	<0.08				
1/24/2017				<0.08	6.3
1/27/2017	0.047 (J)	0.033 (J)			
2/8/2017			<0.08		
2/23/2017			<0.08		
3/14/2017				<0.08	
3/15/2017	0.024 (J)	<0.08			5.9
3/17/2017			<0.08		
4/11/2017			<0.08		
4/25/2017				<0.08	6.2
4/26/2017	<0.08	<0.08	<0.08		
5/17/2017			<0.08		
6/7/2017			<0.08		
7/11/2017			<0.08		
8/9/2017		<0.08		<0.08	6.3
8/10/2017	<0.08				
10/11/2017			<0.08	<0.08	6.8
10/12/2017	<0.08	<0.08			
6/14/2018	<0.08	<0.08	<0.08	<0.08	5.4
10/3/2018				<0.08	
10/4/2018	<0.08	<0.08	<0.08		5.5
4/3/2019	<0.08	<0.08	<0.08		
4/4/2019				<0.08	3.2
9/18/2019		<0.08	<0.08	<0.08	2.1
9/19/2019	<0.08				
3/18/2020	0.039 (J)			0.071 (J)	2
3/19/2020		0.053 (J)	0.039 (J)		

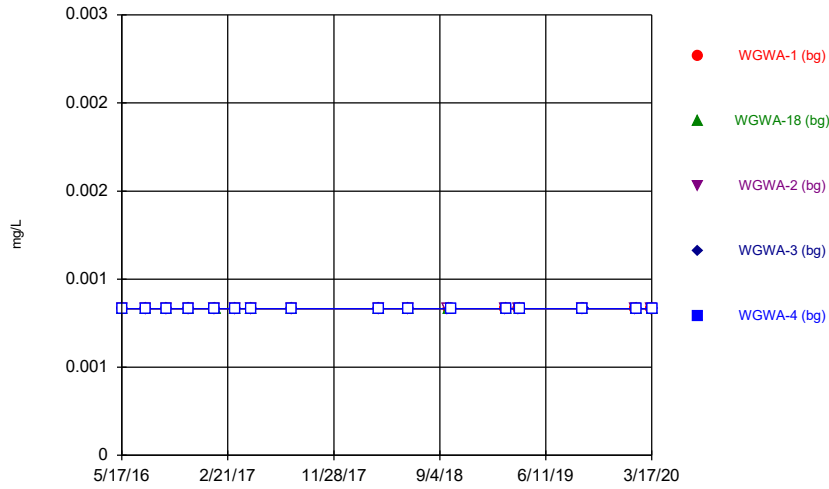
Time Series

Constituent: Boron (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

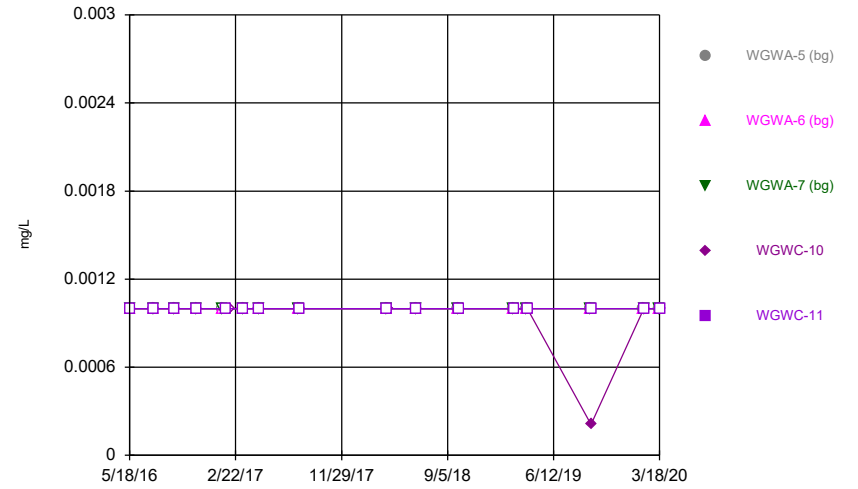
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.08			
5/19/2016			1.42	0.314
7/20/2016	<0.08		1.4	0.25
9/14/2016	<0.08			0.3
9/15/2016			1.2	
11/10/2016	<0.08			
11/11/2016		<0.08		
11/14/2016			1.3	
1/20/2017	<0.08			
2/6/2017		<0.08	1.8	
2/9/2017				0.61
3/14/2017	<0.08			
3/15/2017		0.034 (J)	1.7	0.42
4/11/2017		<0.08		0.37
4/25/2017	<0.08			
4/26/2017		<0.08	2	0.38
6/7/2017		<0.08		
7/11/2017		<0.08		
8/9/2017	<0.08			
8/10/2017		<0.08	1.8	0.29
10/11/2017	<0.08			
10/12/2017		<0.08	1.8	0.36
6/14/2018	<0.08	<0.08	1.7	0.39
10/4/2018	<0.08	<0.08	1.9	0.37
4/2/2019		<0.08		
4/3/2019			1.7	0.35
4/4/2019	0.049 (J)			
9/18/2019	<0.08	<0.08		
9/19/2019			1.7	0.39
3/18/2020	0.049 (J)			
3/19/2020			2.2	0.55
5/4/2020		<0.08		

Time Series



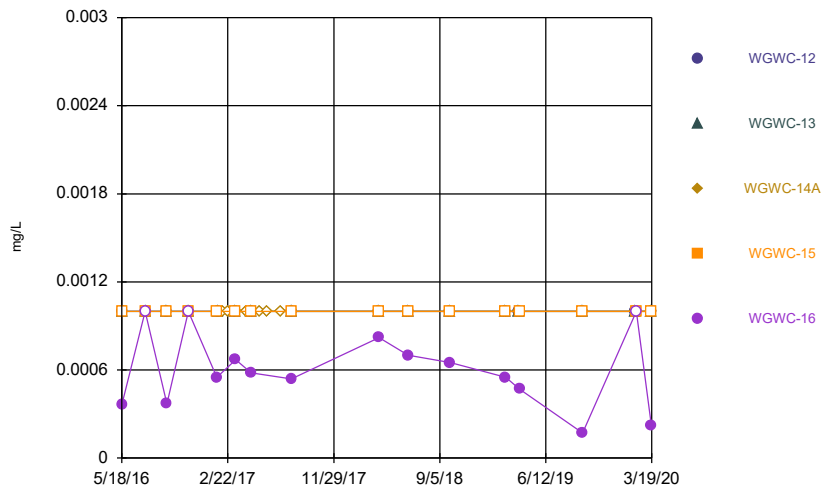
Constituent: Cadmium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



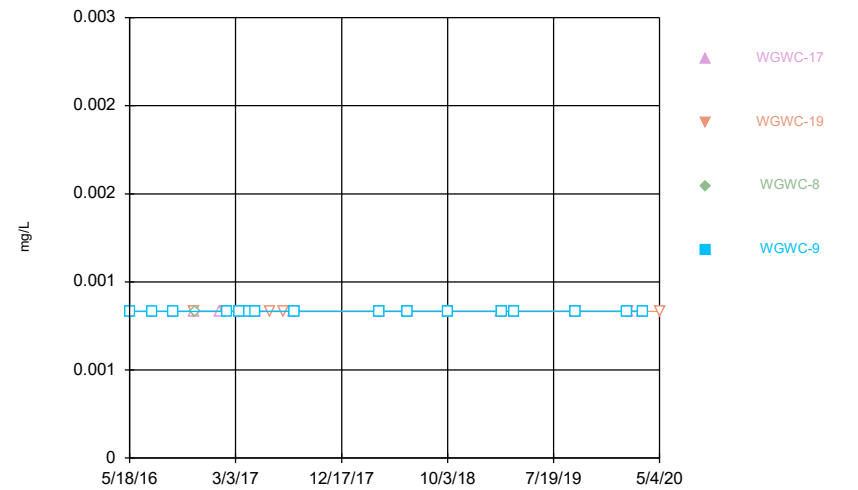
Constituent: Cadmium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Cadmium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Cadmium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.001	<0.001	<0.001		
5/18/2016				<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001
11/9/2016	<0.001	<0.001	<0.001		
11/10/2016				<0.001	<0.001
1/17/2017	<0.001		<0.001		
1/18/2017				<0.001	<0.001
1/19/2017		<0.001			
3/13/2017	<0.001		<0.001		
3/14/2017		<0.001		<0.001	<0.001
4/24/2017	<0.001		<0.001		
4/25/2017		<0.001		<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001	
8/9/2017					<0.001
3/27/2018	<0.001		<0.001		
3/28/2018		<0.001		<0.001	<0.001
6/13/2018	<0.001	<0.001			
6/14/2018			<0.001	<0.001	<0.001
9/24/2018			<0.001		
9/27/2018	<0.001				
9/28/2018		<0.001			
10/3/2018				<0.001	<0.001
2/25/2019	<0.001		<0.001		
2/26/2019		<0.001		<0.001	<0.001
4/1/2019	<0.001		<0.001		
4/2/2019		<0.001		<0.001	<0.001
9/16/2019	<0.001				
9/17/2019		<0.001	<0.001		<0.001
9/18/2019				<0.001	
2/3/2020	<0.001		<0.001		
2/4/2020				<0.001	<0.001
2/5/2020		<0.001			
3/16/2020	<0.001		<0.001		
3/17/2020		<0.001		<0.001	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.001	<0.001	<0.001	<0.001	
5/19/2016					<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016		<0.001	<0.001		
9/14/2016	<0.001			<0.001	<0.001
11/9/2016		<0.001			
11/10/2016			<0.001		
11/11/2016				<0.001	<0.001
1/18/2017		<0.001	<0.001		
1/19/2017	<0.001				
1/27/2017					<0.001
2/6/2017				<0.001	
3/14/2017	<0.001	<0.001	<0.001		
3/15/2017				<0.001	<0.001
4/25/2017	<0.001	<0.001	<0.001		
4/26/2017				<0.001	<0.001
8/8/2017		<0.001	<0.001		
8/9/2017	<0.001				
8/10/2017				<0.001	<0.001
3/28/2018	<0.001	<0.001	<0.001		
3/29/2018					<0.001
3/30/2018				<0.001	
6/13/2018	<0.001	<0.001			
6/14/2018			<0.001	<0.001	<0.001
10/2/2018		<0.001			
10/3/2018	<0.001		<0.001		
10/4/2018				<0.001	<0.001
2/26/2019	<0.001	<0.001	<0.001		
2/27/2019				<0.001	<0.001
4/2/2019	<0.001	<0.001	<0.001		
4/3/2019					<0.001
4/4/2019				<0.001	
9/16/2019	<0.001	<0.001			
9/18/2019			<0.001		
9/19/2019				0.00021 (J)	<0.001
2/4/2020	<0.001	<0.001			
2/5/2020			<0.001	<0.001	<0.001
3/17/2020	<0.001	<0.001	<0.001		
3/18/2020				<0.001	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.001	0.000362 (J)
5/19/2016	<0.001	<0.001			
7/19/2016				<0.001	<0.001
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	<0.001		<0.001	0.00037 (J)
11/10/2016		<0.001		<0.001	<0.001
11/11/2016	<0.001				
1/24/2017				<0.001	0.00055 (J)
1/27/2017	<0.001	<0.001			
2/8/2017			<0.001		
2/23/2017			<0.001		
3/14/2017				<0.001	
3/15/2017	<0.001	<0.001			0.00067 (J)
3/17/2017			<0.001		
4/11/2017			<0.001		
4/25/2017				<0.001	0.00058 (J)
4/26/2017	<0.001	<0.001	<0.001		
5/17/2017			<0.001		
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017		<0.001		<0.001	0.00054 (J)
8/10/2017	<0.001				
3/29/2018	<0.001	<0.001	<0.001		0.00082 (J)
3/30/2018				<0.001	
6/14/2018	<0.001	<0.001	<0.001	<0.001	0.0007 (J)
10/3/2018				<0.001	
10/4/2018	<0.001	<0.001	<0.001		0.00065 (J)
2/27/2019	<0.001	<0.001	<0.001	<0.001	0.00055 (J)
4/3/2019	<0.001	<0.001	<0.001		
4/4/2019				<0.001	0.00047 (J)
9/18/2019		<0.001	<0.001	<0.001	0.00017 (J)
9/19/2019	<0.001				
2/5/2020	<0.001	<0.001	<0.001		
2/7/2020				<0.001	<0.001
3/18/2020	<0.001			<0.001	0.00022 (J)
3/19/2020		<0.001	<0.001		

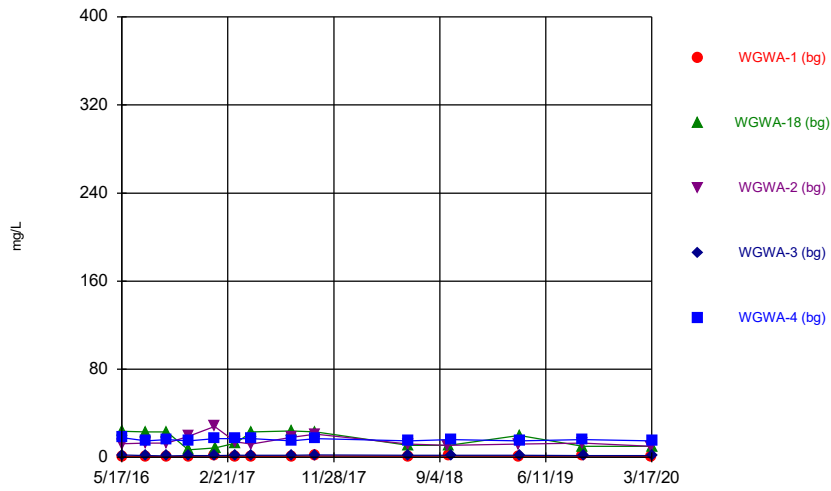
Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

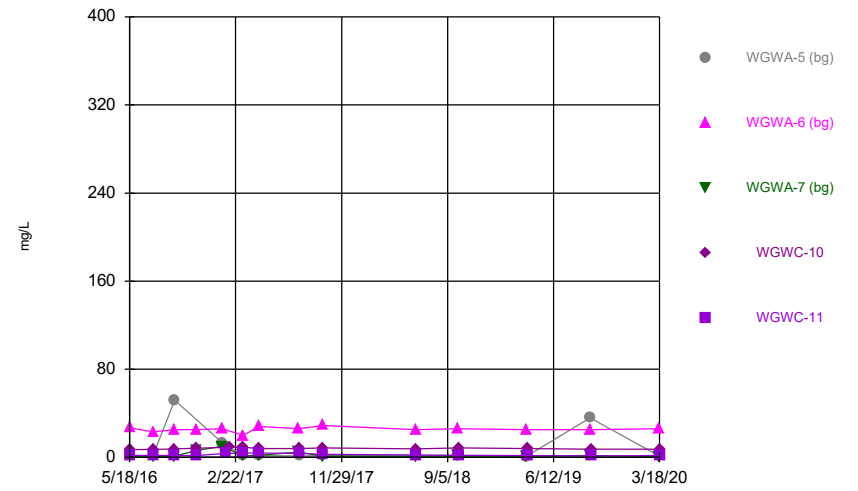
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001			
5/19/2016			<0.001	<0.001
7/20/2016	<0.001		<0.001	<0.001
9/14/2016	<0.001			<0.001
9/15/2016			<0.001	
11/10/2016	<0.001			
11/11/2016		<0.001		
11/14/2016			<0.001	
1/20/2017	<0.001			
2/6/2017		<0.001	<0.001	
2/9/2017				<0.001
3/14/2017	<0.001			
3/15/2017		<0.001	<0.001	<0.001
4/11/2017		<0.001		<0.001
4/25/2017	<0.001			
4/26/2017		<0.001	<0.001	<0.001
6/7/2017		<0.001		
7/11/2017		<0.001		
8/9/2017	<0.001			
8/10/2017		<0.001	<0.001	<0.001
3/29/2018		<0.001	<0.001	<0.001
3/30/2018	<0.001			
6/14/2018	<0.001	<0.001	<0.001	<0.001
10/4/2018	<0.001	<0.001	<0.001	<0.001
2/26/2019	<0.001			
2/27/2019			<0.001	
2/28/2019		<0.001		<0.001
4/2/2019		<0.001		
4/3/2019			<0.001	<0.001
4/4/2019	<0.001			
9/18/2019	<0.001	<0.001		
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020	<0.001	<0.001	<0.001	
3/18/2020	<0.001			
3/19/2020			<0.001	<0.001
5/4/2020		<0.001		

Time Series



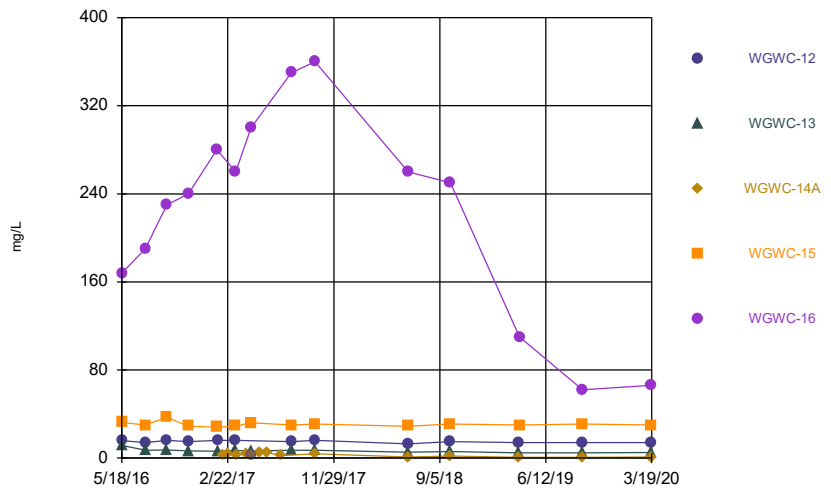
Constituent: Calcium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



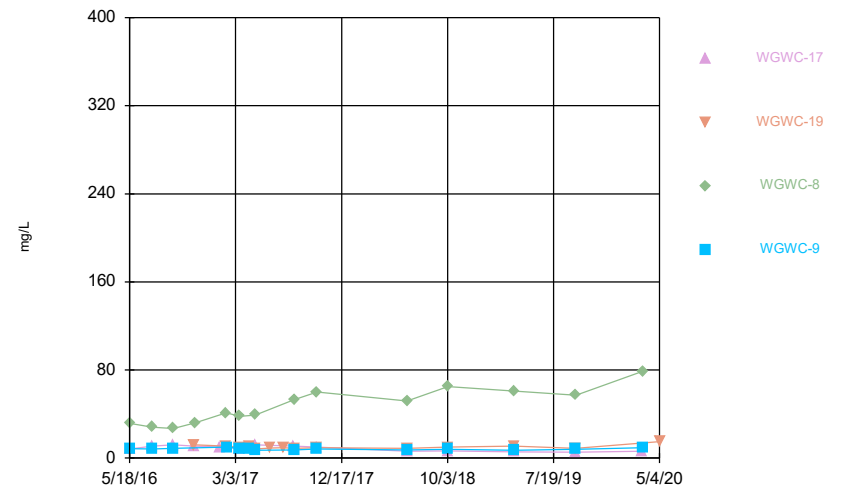
Constituent: Calcium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Calcium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Calcium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	0.927	23.7	12.2		
5/18/2016				2.1	17.9
7/19/2016	1	23	13		
7/20/2016				1.7	15
9/13/2016	0.44	23	13	1.3	16
11/9/2016	1.1	6.7	19		
11/10/2016				1.6	15
1/17/2017	1.4		28		
1/18/2017				1.7	17
1/19/2017		8.5			
3/13/2017	1.1		14		
3/14/2017		13		1.8	17
4/24/2017	1.1		12		
4/25/2017		23		2	17
8/8/2017	1.1	24	18	2	
8/9/2017					15
10/10/2017	1.2		21		
10/11/2017		23		2.1	17
6/13/2018	1.1	11			
6/14/2018			12	2	15
9/24/2018			11		
9/27/2018	1.2				
9/28/2018		11			
10/3/2018				1.8	16
4/1/2019	1		12		
4/2/2019		20		1.8	15
9/16/2019	1.3				
9/17/2019		10	13		16
9/18/2019				1.6	
3/16/2020	1.1		10		
3/17/2020		10		1.7	15

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	1.7	27	1.36	7.17	
5/19/2016					1.95
7/19/2016	1.5	23	0.88		
7/20/2016				7	1.5
9/13/2016		25	0.93		
9/14/2016	52			7.7	1.8
11/9/2016		25			
11/10/2016			6.1		
11/11/2016				8.2	1.7
1/18/2017		26	10		
1/19/2017	13				
1/27/2017					3.5
2/6/2017				9.1	
3/14/2017	1.6	20	1.3		
3/15/2017				9	3.8
4/25/2017	1.5	28	1.9		
4/26/2017				8.1	4
8/8/2017		26	4.8		
8/9/2017	1.3				
8/10/2017				8.1	3.5
10/11/2017	1.5	29	0.93		
10/12/2017				8.6	2.7
6/13/2018	1.2	25			
6/14/2018			0.94	7.7	2.2
10/2/2018		26			
10/3/2018	1.4		1.2		
10/4/2018				8.5	2
4/2/2019	1.1	25	1.1		
4/3/2019					1.7
4/4/2019				7.9	
9/16/2019	36	25			
9/18/2019			1.5		
9/19/2019				7.5	1.4
3/17/2020	1.4	26	0.82		
3/18/2020				7.5	1.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

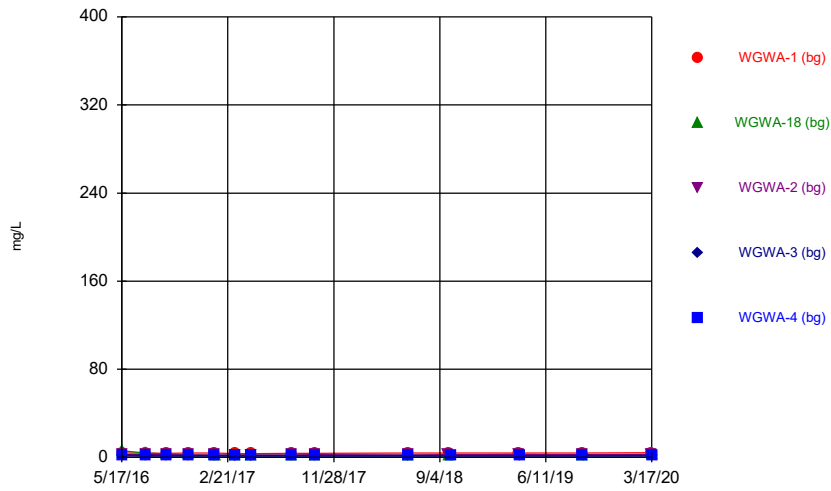
	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				32.5	168
5/19/2016	15.8	11.4			
7/19/2016				30	190
7/20/2016	14	7.1			
9/14/2016	16	7.4		37	230
11/10/2016		6.4		29	240
11/11/2016	15				
1/24/2017				28	280
1/27/2017	16	6.2			
2/8/2017			3.2		
2/23/2017			4.1		
3/14/2017				29	
3/15/2017	16	6.7			260
3/17/2017			2.4		
4/11/2017			4.1		
4/25/2017				32	300
4/26/2017	3 (o)	6.5	2.5		
5/17/2017			5.2		
6/7/2017			5.2		
7/11/2017			2.3		
8/9/2017		7		30	350
8/10/2017	15				
10/11/2017			3.8	31	360
10/12/2017	16	7			
6/14/2018	13	5.5	1.1	29	260
10/3/2018				31	
10/4/2018	15	5.9	2		250
4/3/2019	14	4.7	0.84		
4/4/2019				30	110
9/18/2019		4.9	0.85	31	62
9/19/2019	14				
3/18/2020	14			30	66
3/19/2020		5	0.89		

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

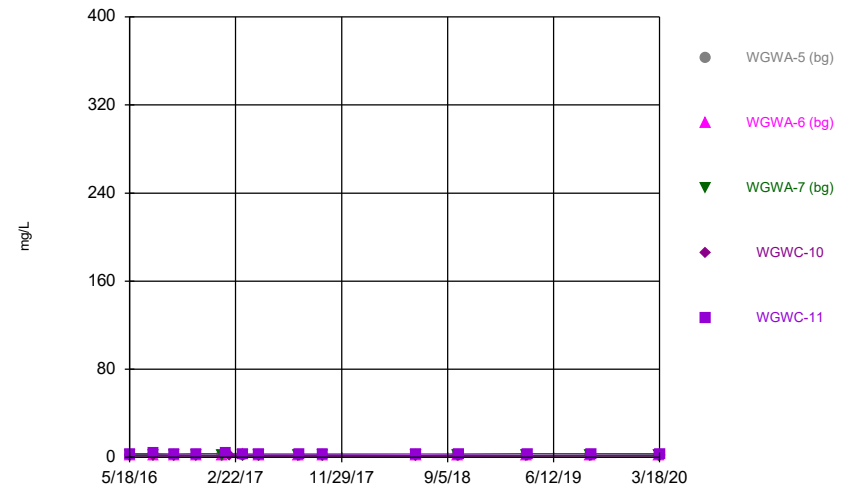
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	8.24			
5/19/2016			31.4	8.53
7/20/2016	11		28	8.2
9/14/2016	12			8.8
9/15/2016			27	
11/10/2016	11			
11/11/2016		12		
11/14/2016			32	
1/20/2017	10			
2/6/2017		11	41	
2/9/2017				10
3/14/2017	8.8			
3/15/2017		10	38	8.6
4/11/2017		11		8.6
4/25/2017	12			
4/26/2017		8.4	39	7.1
6/7/2017		9		
7/11/2017		9.5		
8/9/2017	11			
8/10/2017		8.8	53	7.5
10/11/2017	10			
10/12/2017		9.5	60	8.2
6/14/2018	6.2	8.9	52	7.5
10/4/2018	6.4	10	65	8
4/2/2019		11		
4/3/2019			61	7.2
4/4/2019	5.6			
9/18/2019	5.5	8.8		
9/19/2019			57	8.1
3/18/2020	6.3			
3/19/2020			79	9.3
5/4/2020		15		

Time Series



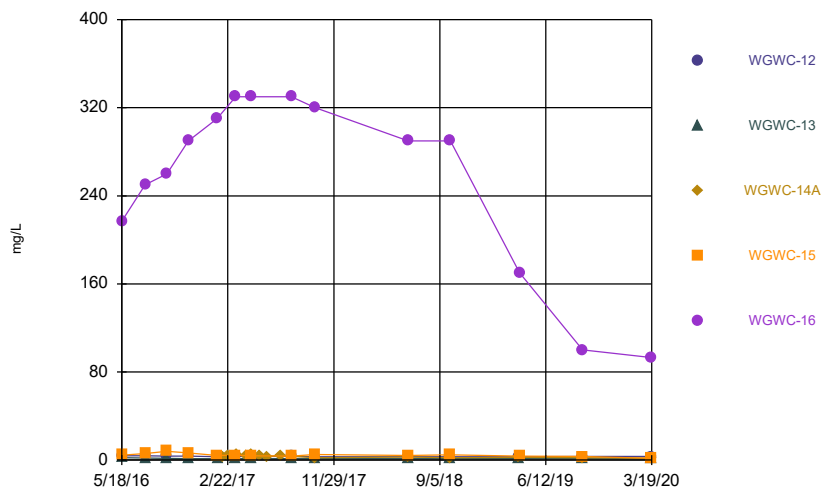
Constituent: Chloride Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



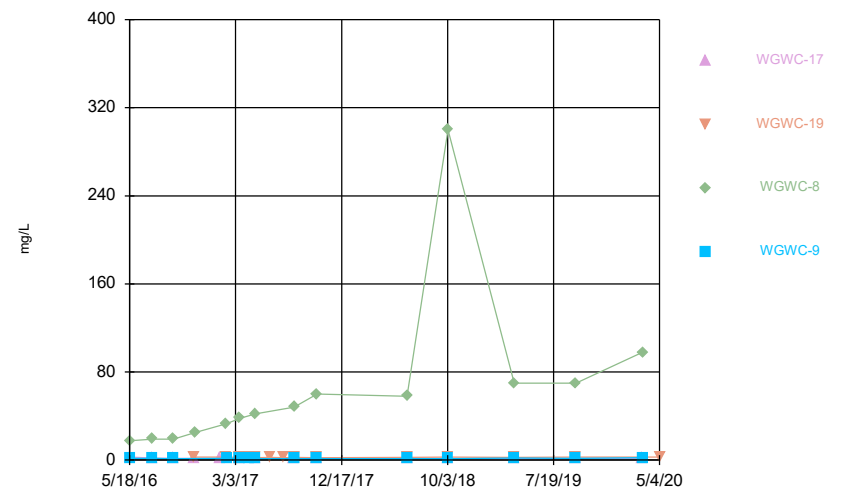
Constituent: Chloride Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Chloride Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Chloride Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	3.8	6.05	2.5		
5/18/2016				1.92	1.45
7/19/2016	3.9	4	2.6		
7/20/2016				1.8	1.4
9/13/2016	3.6	3.1	2.4	1.7	1.4
11/9/2016	3.9	2.3	2.3		
11/10/2016				1.6	1.3
1/17/2017	3.8		2.3		
1/18/2017				1.7	1.3
1/19/2017		2			
3/13/2017	3.4		2.2		
3/14/2017		1.9		1.6	1.2
4/24/2017	3.4		2.2		
4/25/2017		1.9		1.6	1.2
8/8/2017	3.6	2	2.3	1.7	
8/9/2017					1.2
10/10/2017	3.6		2.5		
10/11/2017		1.9		1.6	1.2
6/13/2018	3.8	2			
6/14/2018			2.3	1.6	1.2
9/24/2018			2.4		
9/27/2018	4				
9/28/2018		2.1			
10/3/2018				1.6	1.2
4/1/2019	4		2.4		
4/2/2019		2.6		1.7	1.2
9/16/2019	4				
9/17/2019		2	2.4		1.2
9/18/2019				1.7	
3/16/2020	4.3		2.7		
3/17/2020		2.3		1.8	1.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	2.14	1.58	2.06	1.45	
5/19/2016					3.21
7/19/2016	2.4	1.6	2.1		
7/20/2016				1.6	3.4
9/13/2016		1.4	2		
9/14/2016	2.1			1.5	3.1
11/9/2016		1.5			
11/10/2016			1.8		
11/11/2016				1.5	3.2
1/18/2017		1.5	1.8		
1/19/2017	1.8				
1/27/2017					3.4
2/6/2017				1.4	
3/14/2017	2	2.5	1.8		
3/15/2017				1.4	3.1
4/25/2017	1.8	1.3	1.8		
4/26/2017				1.3	3.1
8/8/2017		1.4	1.9		
8/9/2017	1.9				
8/10/2017				1.4	3.1
10/11/2017	2.1	1.3	1.8		
10/12/2017				1.3	3
6/13/2018	1.7	1.4			
6/14/2018			1.7	1.3	3
10/2/2018		1.4			
10/3/2018	1.8		1.8		
10/4/2018				1.3	3.1
4/2/2019	1.7	1.5	1.9		
4/3/2019					3.3
4/4/2019				1.4	
9/16/2019	1.8	1.5			
9/18/2019			2		
9/19/2019				1.5	3.2
3/17/2020	1.6	1.7	2.2		
3/18/2020				1.5	3.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				4.59	217
5/19/2016	3.8	2.26			
7/19/2016				5.9	250
7/20/2016	3.8	1.9			
9/14/2016	3.7	1.6		7.9	260
11/10/2016		1.4		6.5	290
11/11/2016	3.5				
1/24/2017				4.1	310
1/27/2017	3.1	1.4			
2/8/2017			2.5		
2/23/2017			4.3		
3/14/2017				4.4	
3/15/2017	3.2	1.4			330
3/17/2017			4.8		
4/11/2017			3.8		
4/25/2017				4	330
4/26/2017	3.2	1.3	4.8		
5/17/2017			3.9		
6/7/2017			3.2		
7/11/2017			4.1		
8/9/2017		1.4		3.6	330
8/10/2017	3.4				
10/11/2017			2.2	5	320
10/12/2017	3.1	1.2			
6/14/2018	3	1.2	2.8	4.3	290
10/3/2018				4.8	
10/4/2018	3.1	1.2	2.2		290
4/3/2019	3	1.2	2.4		
4/4/2019				3.7	170
9/18/2019		1.2	2.2	3.2	100
9/19/2019	3.2				
3/18/2020	3.2			1.7	93
3/19/2020		1.3	1.9		

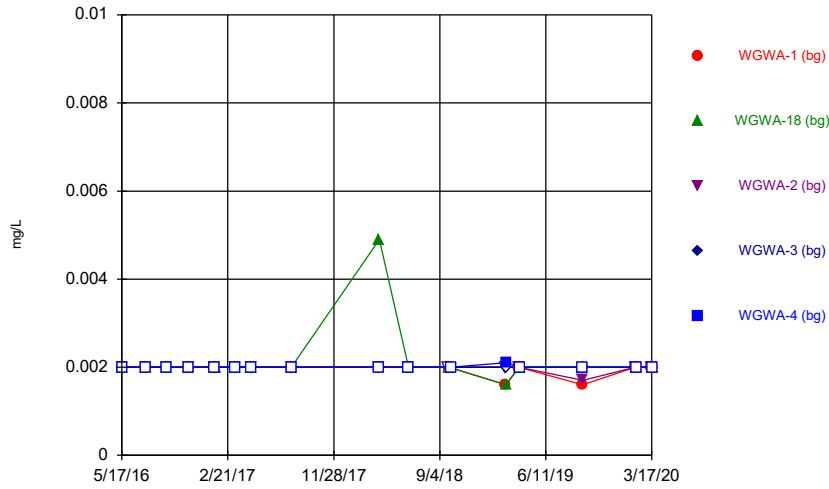
Time Series

Constituent: Chloride (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

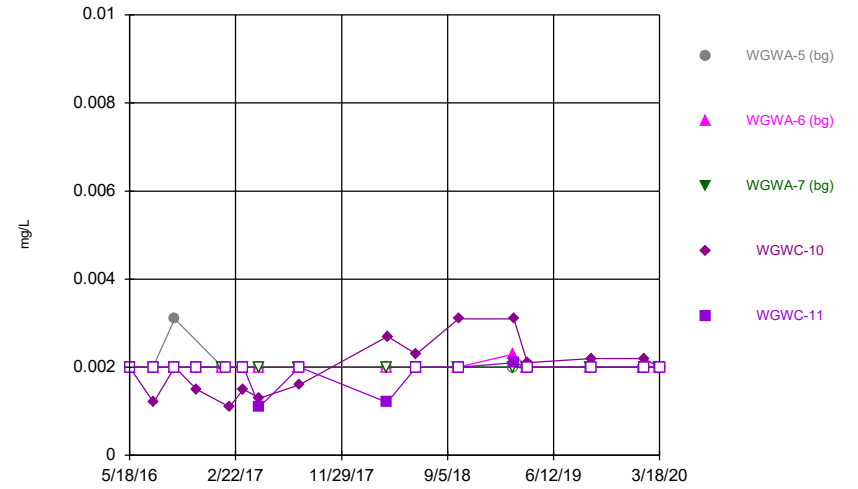
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	2.72			
5/19/2016			17.5	1.46
7/20/2016	1.9		19	1.5
9/14/2016	1.6			1.4
9/15/2016			19	
11/10/2016	1.6			
11/11/2016		2.6		
11/14/2016			25	
1/20/2017	1.5			
2/6/2017		2.6	33	
2/9/2017				1.5
3/14/2017	1.5			
3/15/2017		2.4	38	1.3
4/11/2017		2.3		1.2
4/25/2017	1.8			
4/26/2017		2.3	42	1.2
6/7/2017		2.5		
7/11/2017		2.3		
8/9/2017	1.4			
8/10/2017		2.5	48	1.3
10/11/2017	1.5			
10/12/2017		2.3	60	1.4
6/14/2018	1.5	2.4	58	1.2
10/4/2018	1.5	2.6	300	1.2
4/2/2019		2.5		
4/3/2019			70	2
4/4/2019	1.4			
9/18/2019	1.5	2.7		
9/19/2019			70	1.5
3/18/2020	1.5			
3/19/2020			98	2.1
5/4/2020		2.8		

Time Series



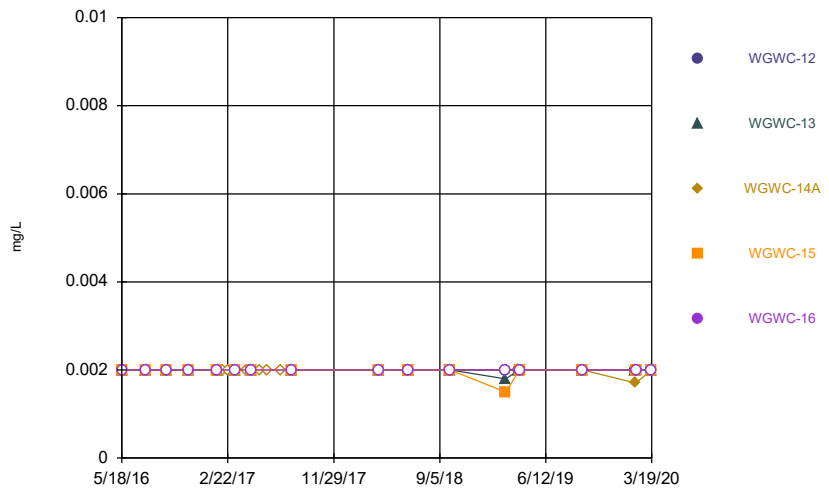
Constituent: Chromium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



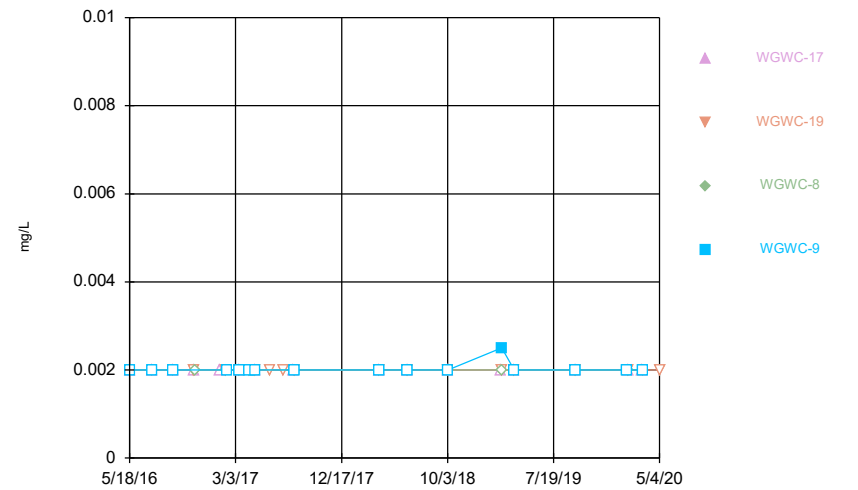
Constituent: Chromium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Chromium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Chromium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.002	<0.002	<0.002		
5/18/2016				<0.002	<0.002
7/19/2016	<0.002	<0.002	<0.002		
7/20/2016				<0.002	<0.002
9/13/2016	<0.002	<0.002	<0.002	<0.002	<0.002
11/9/2016	<0.002	<0.002	<0.002		
11/10/2016				<0.002	<0.002
1/17/2017	<0.002		<0.002		
1/18/2017				<0.002	<0.002
1/19/2017		<0.002			
3/13/2017	<0.002		<0.002		
3/14/2017		<0.002		<0.002	<0.002
4/24/2017	<0.002		<0.002		
4/25/2017		<0.002		<0.002	<0.002
8/8/2017	<0.002	<0.002	<0.002	<0.002	
8/9/2017					<0.002
3/27/2018	<0.002		<0.002		
3/28/2018		0.0049		<0.002	<0.002
6/13/2018	<0.002	<0.002			
6/14/2018			<0.002	<0.002	<0.002
9/24/2018			<0.002		
9/27/2018	<0.002				
9/28/2018		<0.002			
10/3/2018				<0.002	<0.002
2/25/2019	0.0016 (J)		<0.002		
2/26/2019		0.0016 (J)		<0.002	0.0021 (J)
4/1/2019	<0.002		<0.002		
4/2/2019		<0.002		<0.002	<0.002
9/16/2019	0.0016 (J)				
9/17/2019		<0.002	0.0017 (J)		<0.002
9/18/2019				<0.002	
2/3/2020	<0.002		<0.002		
2/4/2020				<0.002	<0.002
2/5/2020		<0.002			
3/16/2020	<0.002		<0.002		
3/17/2020		<0.002		<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.002	<0.002	<0.002	<0.002	
5/19/2016					<0.002
7/19/2016	<0.002	<0.002	<0.002		
7/20/2016				0.0012 (J)	<0.002
9/13/2016		<0.002	<0.002		
9/14/2016	0.0031			<0.002	<0.002
11/9/2016		<0.002			
11/10/2016			<0.002		
11/11/2016				0.0015 (J)	<0.002
1/18/2017		<0.002	<0.002		
1/19/2017	<0.002				
1/27/2017					<0.002
2/6/2017				0.0011 (J)	
3/14/2017	<0.002	<0.002	<0.002		
3/15/2017				0.0015 (J)	<0.002
4/25/2017	<0.002	<0.002	<0.002		
4/26/2017				0.0013 (J)	0.0011 (J)
8/8/2017		<0.002	<0.002		
8/9/2017	<0.002				
8/10/2017				0.0016 (J)	<0.002
3/28/2018	<0.002	<0.002	<0.002		
3/29/2018					0.0012 (J)
3/30/2018				0.0027	
6/13/2018	<0.002	<0.002			
6/14/2018			<0.002	0.0023 (J)	<0.002
10/2/2018		<0.002			
10/3/2018	<0.002		<0.002		
10/4/2018				0.0031	<0.002
2/26/2019	<0.002	0.0023 (J)	<0.002		
2/27/2019				0.0031	0.0021 (J)
4/2/2019	<0.002	<0.002	<0.002		
4/3/2019					<0.002
4/4/2019				0.0021 (J)	
9/16/2019	<0.002	<0.002			
9/18/2019			<0.002		
9/19/2019				0.0022	<0.002
2/4/2020	<0.002	<0.002			
2/5/2020			<0.002	0.0022	<0.002
3/17/2020	<0.002	<0.002	<0.002		
3/18/2020				<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.002	<0.002
5/19/2016	<0.002	<0.002			
7/19/2016				<0.002	<0.002
7/20/2016	<0.002	<0.002			
9/14/2016	<0.002	<0.002		<0.002	<0.002
11/10/2016		<0.002		<0.002	<0.002
11/11/2016	<0.002				
1/24/2017				<0.002	<0.002
1/27/2017	<0.002	<0.002			
2/8/2017			<0.002		
2/23/2017			<0.002		
3/14/2017				<0.002	
3/15/2017	<0.002	<0.002			<0.002
3/17/2017			<0.002		
4/11/2017			<0.002		
4/25/2017				<0.002	<0.002
4/26/2017	<0.002	<0.002	<0.002		
5/17/2017			<0.002		
6/7/2017			<0.002		
7/11/2017			<0.002		
8/9/2017		<0.002		<0.002	<0.002
8/10/2017	<0.002				
3/29/2018	<0.002	<0.002	<0.002		<0.002
3/30/2018				<0.002	
6/14/2018	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018				<0.002	
10/4/2018	<0.002	<0.002	<0.002		<0.002
2/27/2019	<0.002	0.0018 (J)	<0.002	0.0015 (J)	<0.002
4/3/2019	<0.002	<0.002	<0.002		
4/4/2019				<0.002	<0.002
9/18/2019		<0.002	<0.002	<0.002	<0.002
9/19/2019	<0.002				
2/5/2020	<0.002	<0.002	0.0017 (J)		
2/7/2020				<0.002	<0.002
3/18/2020	<0.002			<0.002	<0.002
3/19/2020		<0.002	<0.002		

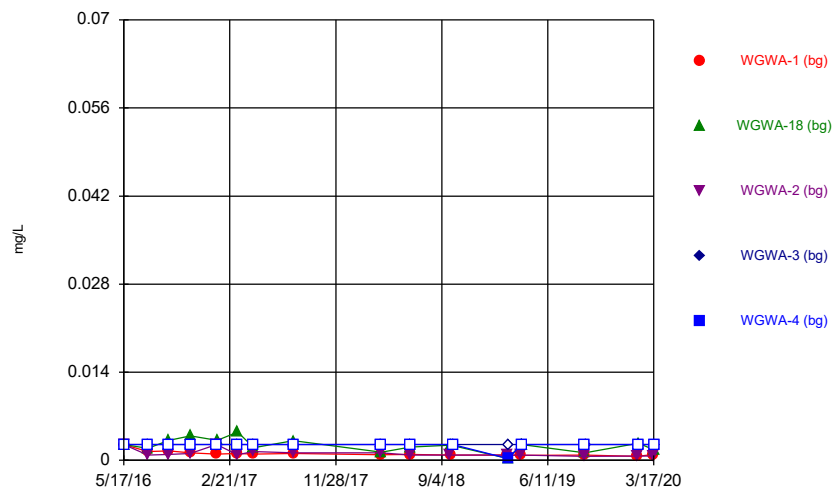
Time Series

Constituent: Chromium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

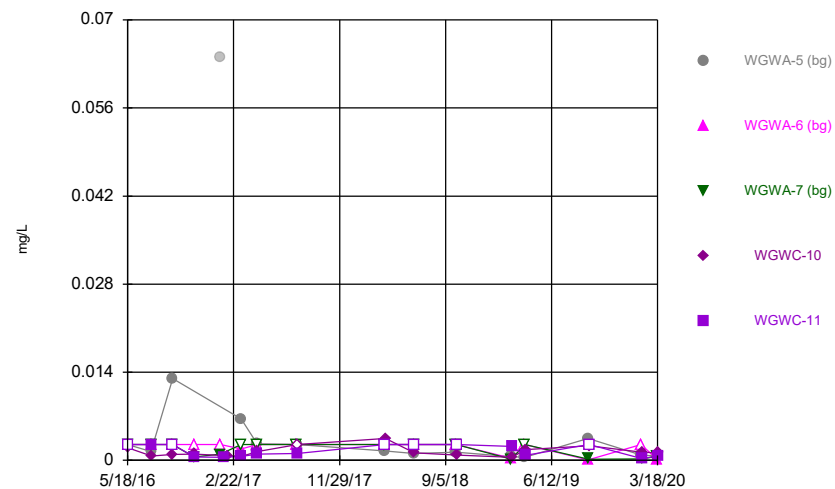
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.002			
5/19/2016			<0.002	<0.002
7/20/2016	<0.002		<0.002	<0.002
9/14/2016	<0.002			<0.002
9/15/2016			<0.002	
11/10/2016	<0.002			
11/11/2016		<0.002		
11/14/2016			<0.002	
1/20/2017	<0.002			
2/6/2017		<0.002	<0.002	
2/9/2017				<0.002
3/14/2017	<0.002			
3/15/2017		<0.002	<0.002	<0.002
4/11/2017		<0.002		<0.002
4/25/2017	<0.002			
4/26/2017		<0.002	<0.002	<0.002
6/7/2017		<0.002		
7/11/2017		<0.002		
8/9/2017	<0.002			
8/10/2017		<0.002	<0.002	<0.002
3/29/2018		<0.002	<0.002	<0.002
3/30/2018	<0.002			
6/14/2018	<0.002	<0.002	<0.002	<0.002
10/4/2018	<0.002	<0.002	<0.002	<0.002
2/26/2019	<0.002			
2/27/2019			<0.002	
2/28/2019		<0.002		0.0025
4/2/2019		<0.002		
4/3/2019			<0.002	<0.002
4/4/2019	<0.002			
9/18/2019	<0.002	<0.002		
9/19/2019			<0.002	<0.002
2/5/2020				<0.002
2/7/2020	<0.002	<0.002	<0.002	
3/18/2020	<0.002			
3/19/2020			<0.002	<0.002
5/4/2020		<0.002		

Time Series



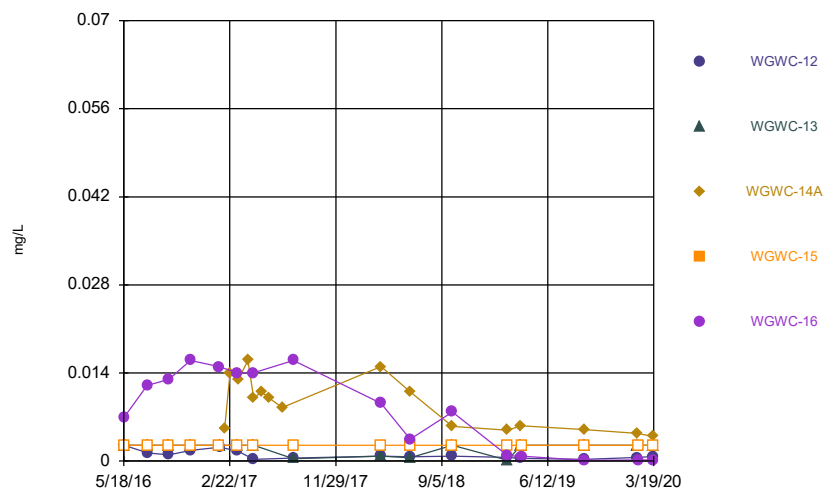
Constituent: Cobalt Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



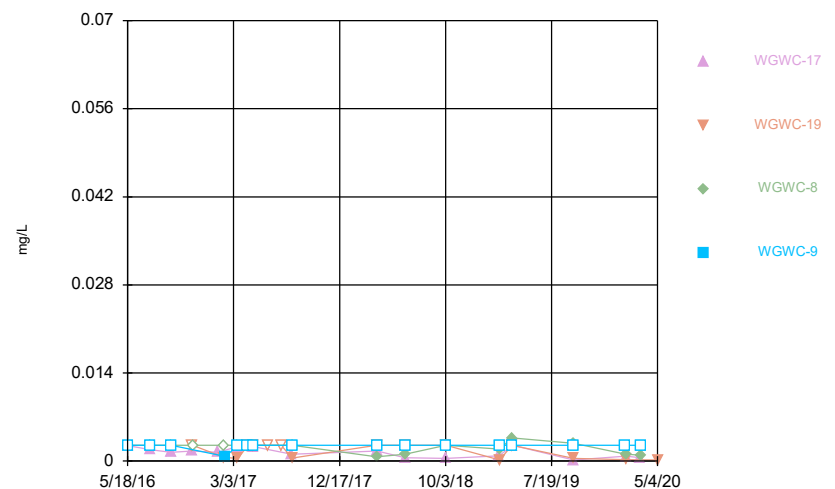
Constituent: Cobalt Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Cobalt Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Cobalt Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025		
5/18/2016				<0.0025	<0.0025
7/19/2016	0.0014 (J)	0.0019 (J)	0.00086 (J)		
7/20/2016				<0.0025	<0.0025
9/13/2016	0.0015 (J)	0.0032	0.00095 (J)	<0.0025	<0.0025
11/9/2016	0.0012 (J)	0.0039	0.0011 (J)		
11/10/2016				<0.0025	<0.0025
1/17/2017	0.001 (J)		<0.0025		
1/18/2017				<0.0025	<0.0025
1/19/2017		0.0032			
3/13/2017	0.0011 (J)		0.00087 (J)		
3/14/2017		0.0045		<0.0025	<0.0025
4/24/2017	0.001 (J)		0.0014 (J)		
4/25/2017		0.002 (J)		<0.0025	<0.0025
8/8/2017	0.0011 (J)	0.0031	0.0012 (J)	<0.0025	
8/9/2017					<0.0025
3/27/2018	0.00091 (J)		0.0012 (J)		
3/28/2018		0.0013 (J)		<0.0025	<0.0025
6/13/2018	0.00094 (J)	0.0021 (J)			
6/14/2018			0.00085 (J)	<0.0025	<0.0025
9/24/2018			0.00085 (J)		
9/27/2018	0.00085 (J)				
9/28/2018		0.0024 (J)			
10/3/2018				<0.0025	<0.0025
2/25/2019	0.00085 (J)		0.00083 (J)		
2/26/2019		0.00026 (J)		<0.0025	0.00029 (J)
4/1/2019	0.00079 (J)		0.00082 (J)		
4/2/2019		<0.0025		<0.0025	<0.0025
9/16/2019	0.00082				
9/17/2019		0.0012	0.00063		<0.0025
9/18/2019				<0.0025	
2/3/2020	0.00062		0.00068		
2/4/2020				<0.0025	<0.0025
2/5/2020		0.0027			
3/16/2020	0.00092 (J)		0.00066 (J)		
3/17/2020		0.0017 (J)		<0.0025	<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.0025	<0.0025	<0.0025	0.00201 (J)	
5/19/2016					<0.0025
7/19/2016	0.0014 (J)	<0.0025	<0.0025		
7/20/2016				0.00066 (J)	0.0025
9/13/2016		<0.0025	<0.0025		
9/14/2016	0.013			0.00095 (J)	<0.0025
11/9/2016		<0.0025			
11/10/2016			0.00055 (J)		
11/11/2016				0.001 (J)	0.00052 (J)
1/18/2017		<0.0025	0.00097 (J)		
1/19/2017	0.064 (O)				
1/27/2017					0.00049 (J)
2/6/2017				0.00072 (J)	
3/14/2017	0.0066	0.0018 (J)	<0.0025		
3/15/2017				0.00062 (J)	0.00064 (J)
4/25/2017	0.0026	<0.0025	<0.0025		
4/26/2017				0.0014 (J)	0.001 (J)
8/8/2017		<0.0025	<0.0025		
8/9/2017	0.0025				
8/10/2017				<0.0025	0.0011 (J)
3/28/2018	0.0015 (J)	<0.0025	<0.0025		
3/29/2018					<0.0025
3/30/2018				0.0035	
6/13/2018	0.0011 (J)	<0.0025			
6/14/2018			<0.0025	0.0012 (J)	<0.0025
10/2/2018		<0.0025			
10/3/2018	0.0013 (J)		<0.0025		
10/4/2018				0.00086 (J)	<0.0025
2/26/2019	0.0006 (J)	0.00031 (J)	0.00017 (J)		
2/27/2019				0.0005 (J)	0.0022 (J)
4/2/2019	0.00046 (J)	<0.0025	<0.0025		
4/3/2019					0.00081 (J)
4/4/2019				0.0017 (J)	
9/16/2019	0.0035	9.1E-05 (J)			
9/18/2019			0.0002 (J)		
9/19/2019				0.0023	<0.0025
2/4/2020	0.00082	<0.0025			
2/5/2020			0.00021 (J)	0.0013	0.00026 (J)
3/17/2020	0.00066 (J)	0.00014 (J)	0.00065 (J)		
3/18/2020				0.0012 (J)	0.00069 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.0025	0.0069
5/19/2016	<0.0025	<0.0025			
7/19/2016				<0.0025	0.012
7/20/2016	0.0013 (J)	<0.0025			
9/14/2016	0.00098 (J)	<0.0025		<0.0025	0.013
11/10/2016		<0.0025		<0.0025	0.016
11/11/2016	0.0017 (J)				
1/24/2017				<0.0025	0.015
1/27/2017	0.0022 (J)	<0.0025			
2/8/2017			0.0051		
2/23/2017			0.014		
3/14/2017				<0.0025	
3/15/2017	0.0016 (J)	<0.0025			0.014
3/17/2017			0.013		
4/11/2017			0.016		
4/25/2017				<0.0025	0.014
4/26/2017	0.00026 (J)	<0.0025	0.01		
5/17/2017			0.011		
6/7/2017			0.01		
7/11/2017			0.0085		
8/9/2017		0.0004 (J)		<0.0025	0.016
8/10/2017	0.00049 (J)				
3/29/2018	0.0008 (J)	0.0008 (J)	0.015		0.0092
3/30/2018				<0.0025	
6/14/2018	0.00067 (J)	0.00054 (J)	0.011	<0.0025	0.0035
10/3/2018				<0.0025	
10/4/2018	0.00079 (J)	<0.0025	0.0055		0.0078
2/27/2019	0.0006 (J)	0.00013 (J)	0.0049	<0.0025	0.00084 (J)
4/3/2019	0.00043 (J)	<0.0025	0.0056		
4/4/2019				<0.0025	0.00077 (J)
9/18/2019		<0.0025	0.005	<0.0025	0.00011 (J)
9/19/2019	0.00028 (J)				
2/5/2020	0.00058	<0.0025	0.0044		
2/7/2020				<0.0025	0.00016 (J)
3/18/2020	0.00071 (J)			<0.0025	0.00016 (J)
3/19/2020		<0.0025	0.0039		

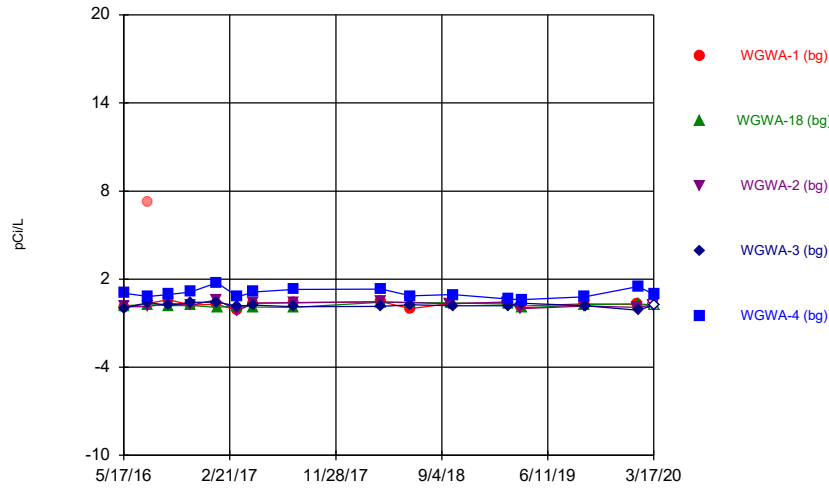
Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

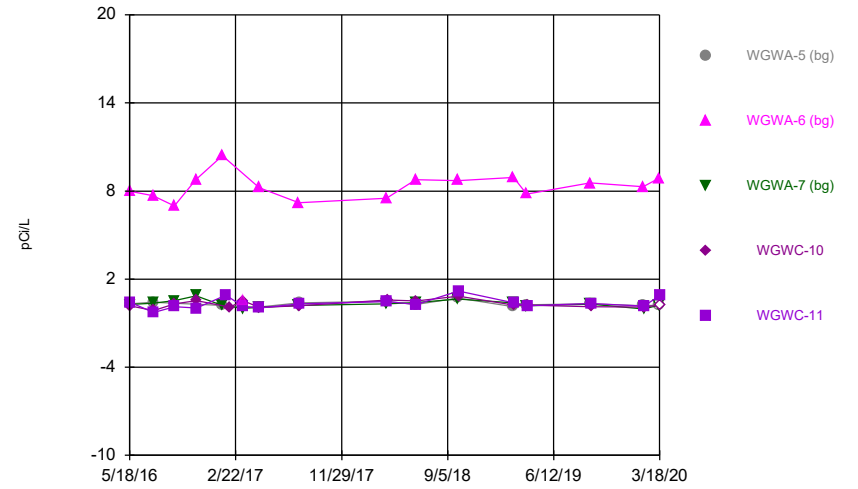
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.00245 (J)			
5/19/2016			<0.0025	<0.0025
7/20/2016	0.0018 (J)		<0.0025	<0.0025
9/14/2016	0.0014 (J)			<0.0025
9/15/2016			<0.0025	
11/10/2016	0.0016 (J)			
11/11/2016		<0.0025		
11/14/2016			<0.0025	
1/20/2017	0.0014 (J)			
2/6/2017		0.00058 (J)	<0.0025	
2/9/2017				0.00073 (J)
3/14/2017	0.0023 (J)			
3/15/2017		0.00045 (J)	<0.0025	<0.0025
4/11/2017		<0.0025		<0.0025
4/25/2017	0.0023 (J)			
4/26/2017		<0.0025	<0.0025	<0.0025
6/7/2017		<0.0025		
7/11/2017		<0.0025		
8/9/2017	0.0011 (J)			
8/10/2017		0.00049 (J)	<0.0025	<0.0025
3/29/2018		<0.0025	0.00066 (J)	<0.0025
3/30/2018	0.0016 (J)			
6/14/2018	0.00055 (J)	<0.0025	0.0011 (J)	<0.0025
10/4/2018	0.00041 (J)	<0.0025	<0.0025	<0.0025
2/26/2019	0.00086 (J)			
2/27/2019			0.0019 (J)	
2/28/2019		0.00019 (J)		<0.0025
4/2/2019		<0.0025		
4/3/2019			0.0037	<0.0025
4/4/2019	<0.0025			
9/18/2019	0.00018 (J)	0.00045 (J)		
9/19/2019			0.0028	<0.0025
2/5/2020				<0.0025
2/7/2020	0.00077	0.00024 (J)	0.0011	
3/18/2020	0.00052 (J)			
3/19/2020			0.00092 (J)	<0.0025
5/4/2020		0.00018 (J)		

Time Series



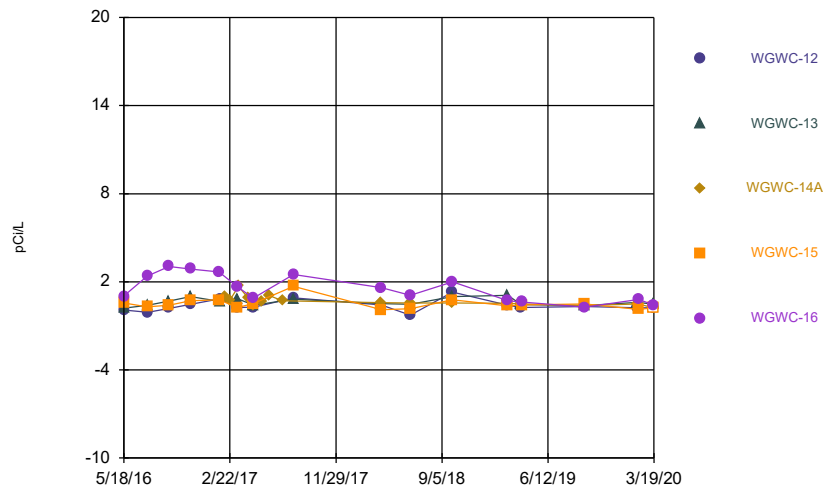
Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 12:03 PM View: All Wells and Constitu
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



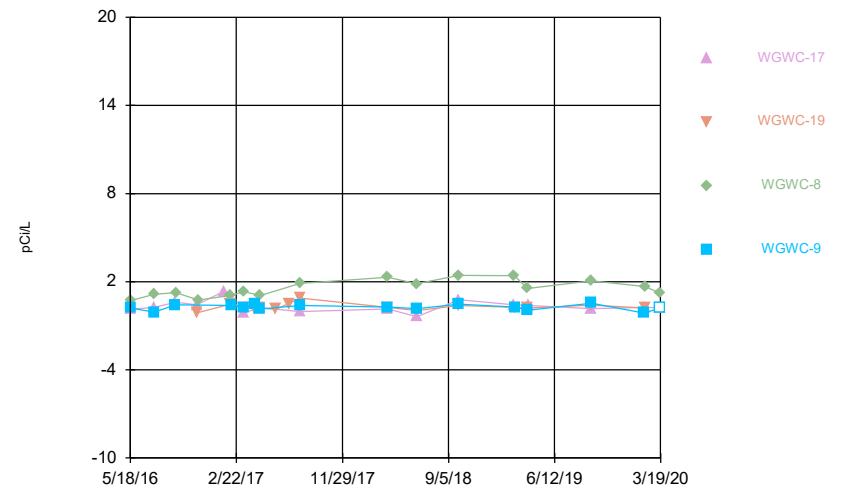
Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 12:03 PM View: All Wells and Constitu
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 12:03 PM View: All Wells and Constitu
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 12:03 PM View: All Wells and Constitu
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	0.0525 (U)	0.184 (U)	0.13 (U)		
5/18/2016				0.025 (U)	1.04
7/19/2016	7.25 (o)	0.27 (U)	0.121 (U)		
7/20/2016				0.398 (U)	0.812
9/13/2016	0.592 (U)	0.194 (U)	0.372 (U)	0.215 (U)	0.958
11/9/2016	0.221 (U)	0.219 (U)	0.217 (U)		
11/10/2016				0.421	1.13
1/17/2017	0.295 (U)		0.595		
1/18/2017				0.434 (U)	1.76
1/19/2017		0.0745 (U)			
3/13/2017	-0.13 (U)		-0.147 (U)		
3/14/2017		0.194 (U)		0.167 (U)	0.788
4/24/2017	0.36 (U)		0.367		
4/25/2017		0.109 (U)		0.224 (U)	1.13
8/8/2017	0.382	0.0842 (U)	0.402	0.127 (U)	
8/9/2017					1.31
3/27/2018	0.475		0.453		
3/28/2018		0.424		0.15 (U)	1.32
6/13/2018	-0.0181 (U)	0.401			
6/14/2018			0.402	0.258 (U)	0.857
9/24/2018			0.318		
9/27/2018	0.342				
9/28/2018		0.381			
10/3/2018				0.178 (U)	0.943
2/25/2019	0.394		0.44		
2/26/2019		0.307 (U)		0.179 (U)	0.65
4/1/2019	0.169 (U)		-0.00216 (U)		
4/2/2019		0.0436 (U)		0.361	0.602
9/16/2019	0.31 (U)				
9/17/2019		0.263 (U)	0.165 (U)		0.788
9/18/2019				0.189 (U)	
2/3/2020	0.283 (U)		0.0879 (U)		
2/4/2020				-0.107 (U)	1.49
2/5/2020		0.327 (U)			
3/16/2020	<0.446		<0.446		
3/17/2020		<0.446		<0.446	0.964

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	0.325 (U)	8	0.268 (U)	0.182 (U)	
5/19/2016					0.431 (U)
7/19/2016	0.433 (U)	7.69	0.369 (U)		
7/20/2016				-0.135 (U)	-0.263 (U)
9/13/2016		6.98	0.527 (U)		
9/14/2016				0.311 (U)	0.13 (U)
11/9/2016		8.78			
11/10/2016			0.871		
11/11/2016				0.542	0.0257 (U)
1/18/2017		10.4	0.213 (U)		
1/19/2017	0.216 (U)				
1/27/2017					0.898
2/6/2017				0.104 (U)	
3/14/2017	0.119 (U)	0.589 (O)	0.0192 (U)		
3/15/2017				0.523	0.121 (U)
4/25/2017	0.105 (U)	8.22	0.0872 (U)		
4/26/2017				0.069 (U)	0.0309 (U)
8/8/2017		7.21	0.219 (U)		
8/9/2017	0.385 (U)				
8/10/2017				0.189 (U)	0.326 (U)
3/28/2018	0.492	7.52	0.315 (U)		
3/29/2018					0.461
3/30/2018				0.575	
6/13/2018	0.275 (U)	8.77			
6/14/2018			0.41	0.523	0.275 (U)
10/2/2018		8.72			
10/3/2018	0.72		0.65		
10/4/2018				0.84	1.18
2/26/2019	0.113 (U)	8.93	0.395		
2/27/2019				0.236 (U)	0.374
4/2/2019	0.255 (U)	7.8	0.182 (U)		
4/3/2019					0.187 (U)
4/4/2019				0.233 (U)	
9/16/2019	0.318 (U)	8.55			
9/18/2019			0.299 (U)		
9/19/2019				0.124 (U)	0.338 (U)
2/4/2020	0.198 (U)	8.3			
2/5/2020			-0.0263 (U)	0.0961 (U)	0.163 (U)
3/17/2020	<0.446	8.88	<0.446		
3/18/2020				<0.446	0.866

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.569	1.03
5/19/2016	0.0698 (U)	0.219 (U)			
7/19/2016				0.29 (U)	2.39
7/20/2016	-0.0646 (U)	0.404 (U)			
9/14/2016	0.199 (U)	0.692		0.412 (U)	3.05
11/10/2016		1		0.709	2.87
11/11/2016	0.467				
1/24/2017				0.779	2.68
1/27/2017	0.836	0.668			
2/8/2017			0.958		
2/23/2017			0.771		
3/14/2017				0.247 (U)	
3/15/2017	0.254 (U)	0.847			1.64
3/17/2017			1.7		
4/11/2017			0.901		
4/25/2017				0.515	0.878
4/26/2017	0.267 (U)	0.408 (U)	0.434		
5/17/2017			0.632		
6/7/2017			1.06		
7/11/2017			0.716		
8/9/2017		0.816		1.7	2.5
8/10/2017	0.912				
3/29/2018	0.419	0.51	0.58		1.6
3/30/2018				0.0985 (U)	
6/14/2018	-0.263 (U)	0.463	0.55	0.171 (U)	1.09
10/3/2018				0.766	
10/4/2018	1.29	0.99	0.563		1.99
2/27/2019	0.415	1.08	0.538	0.363 (U)	0.721
4/3/2019	0.264 (U)	0.446	0.497		
4/4/2019				0.418	0.632
9/18/2019		0.392	0.376 (U)	0.484	0.278 (U)
9/19/2019	0.329 (U)				
2/5/2020	0.225 (U)	0.609	0.5		
2/7/2020				0.125 (U)	0.797
3/18/2020	<0.446			<0.446	0.437
3/19/2020		0.47	<0.446		

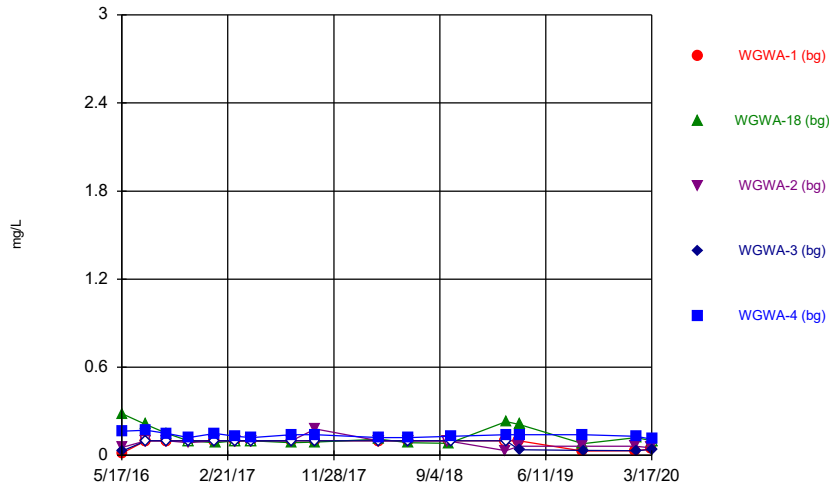
Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

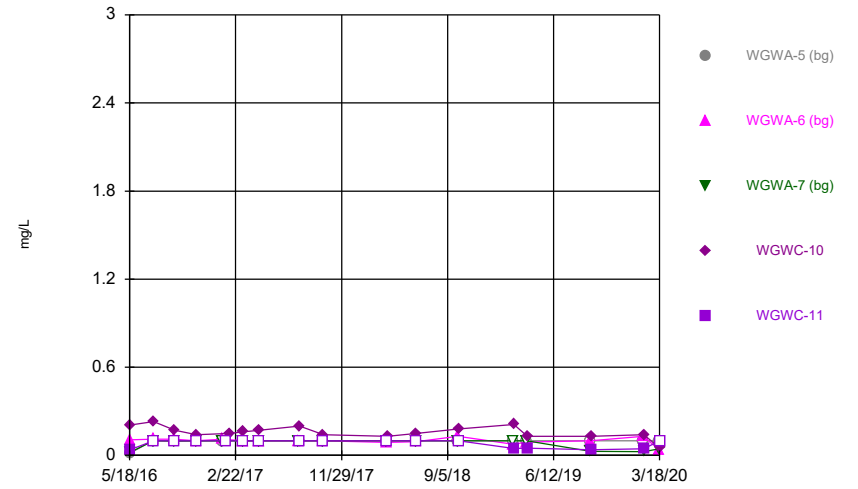
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.116 (U)			
5/19/2016			0.711 (U)	0.209 (U)
7/20/2016	0.247 (U)		1.14	-0.084 (U)
9/14/2016	0.594			0.42 (U)
9/15/2016			1.26	
11/10/2016	0.431			
11/11/2016		-0.11 (U)		
11/14/2016			0.749	
1/20/2017	1.35			
2/6/2017		0.471	1.05	
2/9/2017				0.393
3/14/2017	-0.107 (U)			
3/15/2017		0.255 (U)	1.32	0.271 (U)
4/11/2017		0.19 (U)		0.488 (U)
4/25/2017	0.228 (U)			
4/26/2017		0.22 (U)	1.07	0.14 (U)
6/7/2017		0.126 (U)		
7/11/2017		0.511		
8/9/2017	-0.0246 (U)			
8/10/2017		0.882	1.88	0.379
3/29/2018		0.252 (U)	2.31	0.278 (U)
3/30/2018	0.135 (U)			
6/14/2018	-0.373 (U)	0.0458 (U)	1.86	0.157 (U)
10/4/2018	0.775	0.381	2.44	0.48
2/26/2019	0.431			
2/27/2019			2.42	
2/28/2019		0.254 (U)		0.271 (U)
4/2/2019		0.209 (U)		
4/3/2019			1.55	0.0621 (U)
4/4/2019	0.386			
9/18/2019	0.167 (U)	0.403 (U)		
9/19/2019			2.06	0.537
2/5/2020				-0.137 (U)
2/7/2020	0.244 (U)	0.2 (U)	1.66	
3/18/2020	<0.446			
3/19/2020			1.21	<0.446

Time Series



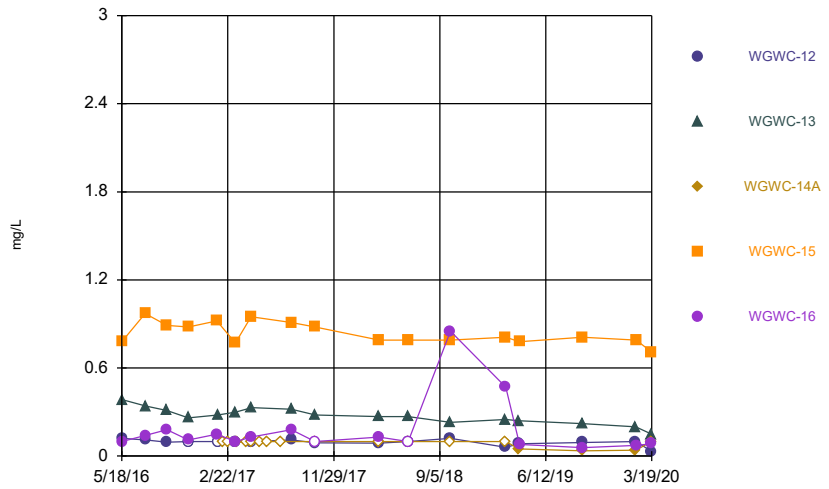
Constituent: Fluoride Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



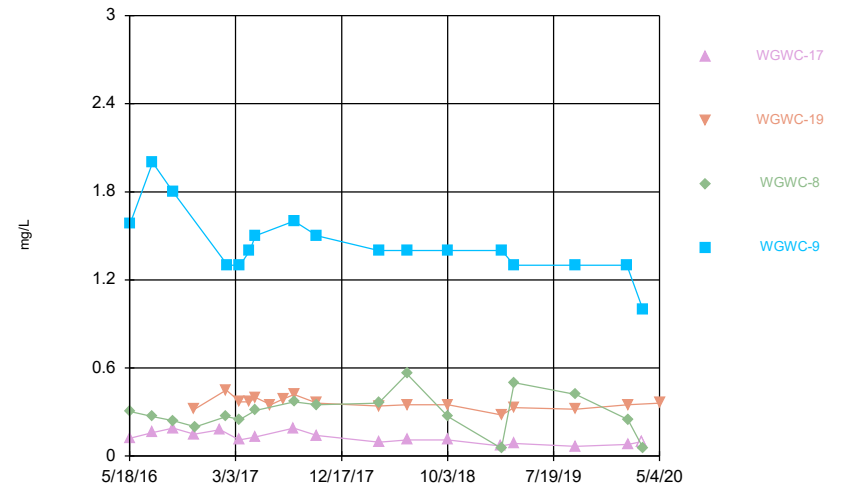
Constituent: Fluoride Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Fluoride Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Fluoride Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	0.0131 (J)	0.284 (J)	0.0538 (J)		
5/18/2016				0.029 (J)	0.164 (J)
7/19/2016	<0.1	0.21	<0.1		
7/20/2016				<0.1	0.17 (J)
9/13/2016	<0.1	0.15 (J)	<0.1	<0.1	0.15 (J)
11/9/2016	<0.1	<0.1	0.085 (J)		
11/10/2016				<0.1	0.12 (J)
1/17/2017	<0.1		<0.1		
1/18/2017				<0.1	0.15 (J)
1/19/2017		0.087 (J)			
3/13/2017	<0.1		<0.1		
3/14/2017		<0.1		<0.1	0.13 (J)
4/24/2017	<0.1		<0.1		
4/25/2017		<0.1		<0.1	0.12 (J)
8/8/2017	<0.1	0.087 (J)	<0.1	<0.1	
8/9/2017					0.14 (J)
10/10/2017	<0.1		0.18 (J)		
10/11/2017		0.09 (J)		<0.1	0.14 (J)
3/27/2018	<0.1		<0.1		
3/28/2018		0.11 (J)		<0.1	0.12 (J)
6/13/2018	<0.1	0.085 (J)			
6/14/2018			<0.1	<0.1	0.12 (J)
9/24/2018			<0.1		
9/27/2018	<0.1				
9/28/2018		0.082 (J)			
10/3/2018				<0.1	0.13 (J)
2/25/2019	<0.1		0.032 (J)		
2/26/2019		0.23		<0.1	0.14 (J)
4/1/2019	<0.1		0.061 (J)		
4/2/2019		0.21		0.039 (J)	0.14 (J)
9/16/2019	0.03 (J)				
9/17/2019		0.079 (J)	0.061 (J)		0.14 (J)
9/18/2019				0.033 (J)	
2/3/2020	0.032 (J)		0.061 (J)		
2/4/2020				0.031 (J)	0.13
2/5/2020		0.12			
3/16/2020	0.042 (J)		0.052 (J)		
3/17/2020		<0.1		0.04 (J)	0.11

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	0.014 (J)	0.106 (J)	0.018 (J)	0.206	
5/19/2016					0.039 (J)
7/19/2016	<0.1	0.11 (J)	<0.1		
7/20/2016				0.23	<0.1
9/13/2016		0.11 (J)	<0.1		
9/14/2016	0.095 (J)			0.17 (J)	<0.1
11/9/2016		0.1 (J)			
11/10/2016			<0.1		
11/11/2016				0.14 (J)	<0.1
1/18/2017		0.11 (J)	<0.1		
1/19/2017	<0.1				
1/27/2017					<0.1
2/6/2017				0.15 (J)	
3/14/2017	<0.1	<0.1	<0.1		
3/15/2017				0.16 (J)	<0.1
4/25/2017	<0.1	<0.1	<0.1		
4/26/2017				0.17 (J)	<0.1
8/8/2017		0.099 (J)	<0.1		
8/9/2017	<0.1				
8/10/2017				0.2	<0.1
10/11/2017	<0.1	0.098 (J)	<0.1		
10/12/2017				0.14 (J)	<0.1
3/28/2018	<0.1	0.088 (J)	<0.1		
3/29/2018					<0.1
3/30/2018				0.13 (J)	
6/13/2018	<0.1	0.093 (J)			
6/14/2018			<0.1	0.15 (J)	<0.1
10/2/2018		0.13 (J)			
10/3/2018	<0.1		<0.1		
10/4/2018				0.18 (J)	<0.1
2/26/2019	<0.1	0.074 (J)	<0.1		
2/27/2019				0.21	0.047 (J)
4/2/2019	<0.1	0.09 (J)	<0.1		
4/3/2019					0.048 (J)
4/4/2019				0.13 (J)	
9/16/2019	<0.1	0.1 (J)			
9/18/2019			0.027 (J)		
9/19/2019				0.13 (J)	0.037 (J)
2/4/2020	<0.1	0.13			
2/5/2020			0.026 (J)	0.14	0.045 (J)
3/17/2020	<0.1	0.037 (J)	0.044 (J)		
3/18/2020				0.052 (J)	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.779	0.1 (J)
5/19/2016	0.12 (J)	0.384			
7/19/2016				0.97	0.14 (J)
7/20/2016	0.11 (J)	0.34			
9/14/2016	0.095 (J)	0.31		0.89	0.18 (J)
11/10/2016		0.26		0.88	0.11 (J)
11/11/2016	<0.1				
1/24/2017				0.92	0.15 (J)
1/27/2017	<0.1	0.28			
2/8/2017			<0.1		
2/23/2017			<0.1		
3/14/2017				0.77	
3/15/2017	<0.1	0.3			0.1 (J)
3/17/2017			<0.1		
4/11/2017			<0.1		
4/25/2017				0.95	0.13 (J)
4/26/2017	<0.1	0.33	<0.1		
5/17/2017			<0.1		
6/7/2017			<0.1		
7/11/2017			<0.1		
8/9/2017		0.32		0.91	0.18 (J)
8/10/2017	0.11 (J)				
10/11/2017			<0.1	0.88	<0.1
10/12/2017	0.091 (J)	0.28			
3/29/2018	0.089 (J)	0.27	<0.1		0.13 (J)
3/30/2018				0.79	
6/14/2018	0.1 (J)	0.27	<0.1	0.79	<0.1
10/3/2018				0.79	
10/4/2018	0.12 (J)	0.23	<0.1		0.85 (J)
2/27/2019	0.06 (J)	0.25	<0.1	0.81	0.47
4/3/2019	0.084 (J)	0.24	0.048 (J)		
4/4/2019				0.78	0.08 (J)
9/18/2019		0.22	0.035 (J)	0.81	0.058 (J)
9/19/2019	0.093 (J)				
2/5/2020	0.098 (J)	0.2	0.04 (J)		
2/7/2020				0.79	0.072 (J)
3/18/2020	0.033 (J)			0.71	0.084 (J)
3/19/2020		0.15	<0.1		

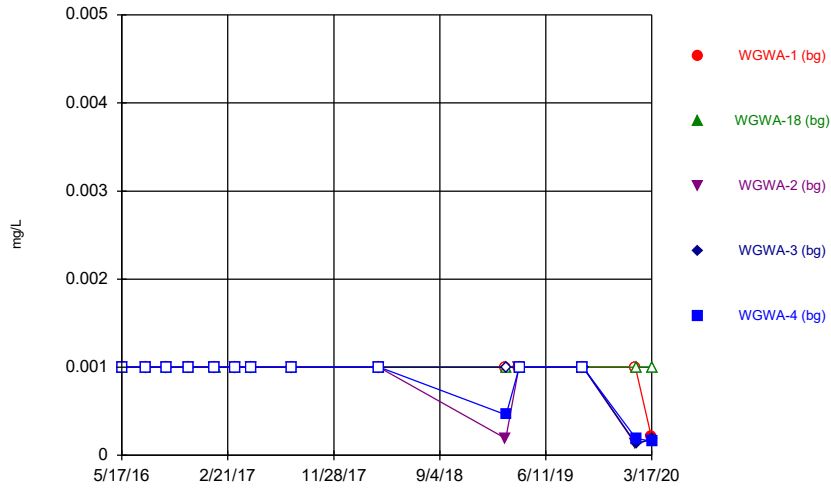
Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

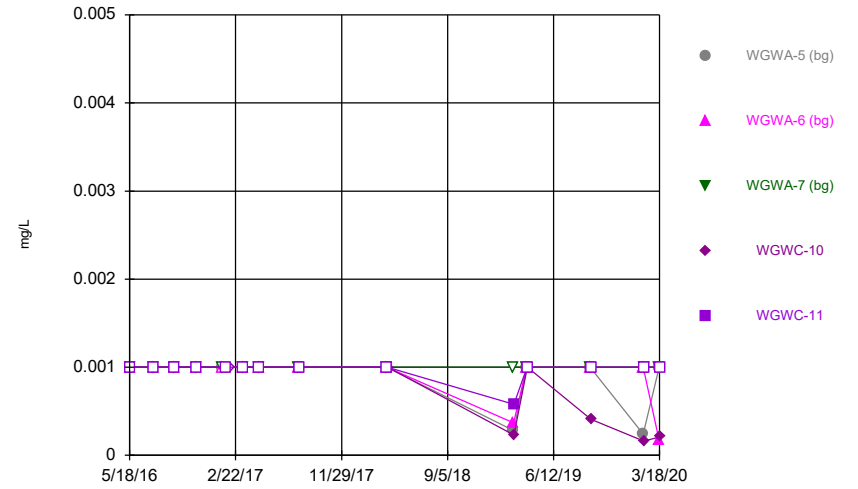
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.121 (J)			
5/19/2016			0.304	1.58
7/20/2016	0.16 (J)		0.27	2
9/14/2016	0.19 (J)			1.8
9/15/2016			0.24	
11/10/2016	0.15 (J)			
11/11/2016		0.32		
11/14/2016			0.2	
1/20/2017	0.18 (J)			
2/6/2017		0.45	0.27	
2/9/2017				1.3
3/14/2017	0.11 (J)			
3/15/2017		0.37	0.25	1.3
4/11/2017		0.37		1.4
4/25/2017	0.13 (J)			
4/26/2017		0.4	0.31	1.5
6/7/2017		0.35		
7/11/2017		0.39		
8/9/2017	0.19 (J)			
8/10/2017		0.42	0.37	1.6
10/11/2017	0.14 (J)			
10/12/2017		0.36	0.35	1.5
3/29/2018		0.34	0.36	1.4
3/30/2018	0.095 (J)			
6/14/2018	0.11 (J)	0.35	0.56	1.4
10/4/2018	0.11 (J)	0.35	0.27	1.4
2/26/2019	0.068 (J)			
2/27/2019			0.054 (J)	
2/28/2019		0.28		1.4
4/2/2019		0.33		
4/3/2019			0.5	1.3
4/4/2019	0.087 (J)			
9/18/2019	0.066 (J)	0.32		
9/19/2019			0.42	1.3
2/5/2020				1.3
2/7/2020	0.079 (J)	0.35	0.25	
3/18/2020	<0.1			
3/19/2020			0.057 (J)	1
5/4/2020		0.36		

Time Series



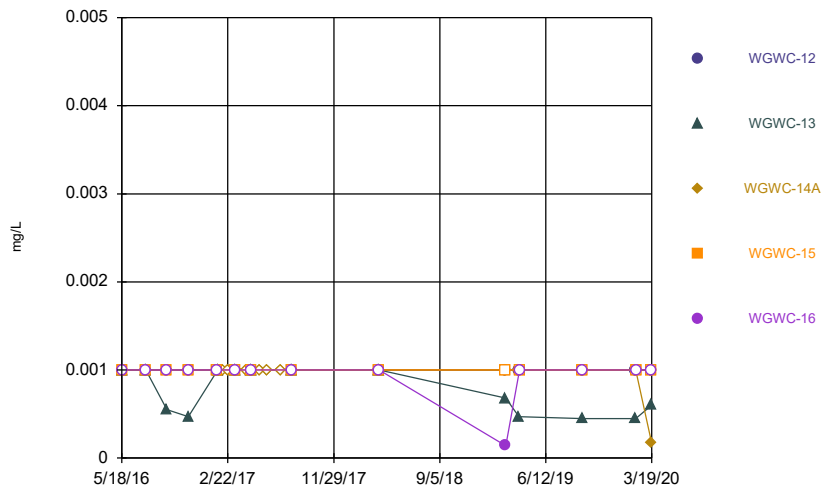
Constituent: Lead Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



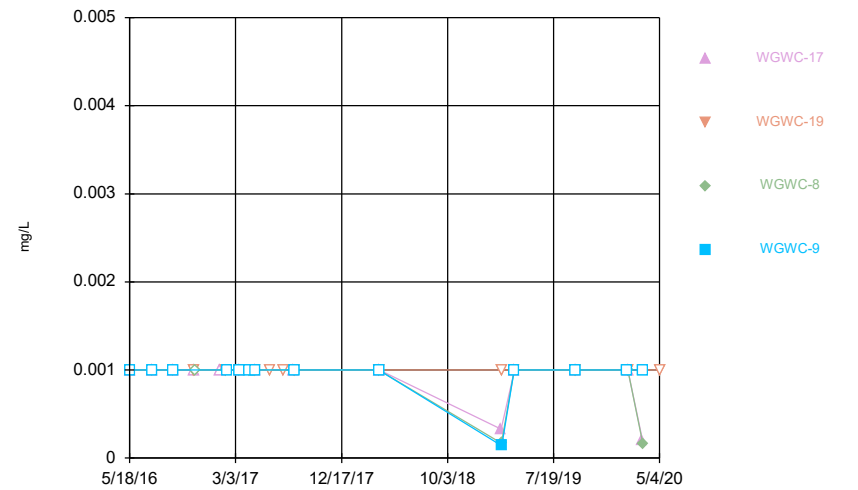
Constituent: Lead Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Lead Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Lead Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Lead (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.001	<0.001	<0.001		
5/18/2016				<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001
11/9/2016	<0.001	<0.001	<0.001		
11/10/2016				<0.001	<0.001
1/17/2017	<0.001		<0.001		
1/18/2017				<0.001	<0.001
1/19/2017		<0.001			
3/13/2017	<0.001		<0.001		
3/14/2017		<0.001		<0.001	<0.001
4/24/2017	<0.001		<0.001		
4/25/2017		<0.001		<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001	
8/9/2017					<0.001
3/27/2018	<0.001		<0.001		
3/28/2018		<0.001		<0.001	<0.001
2/25/2019	<0.001		0.00019 (J)		
2/26/2019		<0.001		<0.001	0.00046 (J)
4/1/2019	<0.001		<0.001		
4/2/2019		<0.001		<0.001	<0.001
9/16/2019	<0.001				
9/17/2019		<0.001	<0.001		<0.001
9/18/2019				<0.001	
2/3/2020	<0.001		0.00013 (J)		
2/4/2020				0.00013 (J)	0.00019 (J)
2/5/2020		<0.001			
3/16/2020	0.00021 (J)		0.00018 (J)		
3/17/2020		<0.001		0.00019 (J)	0.00016 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.001	<0.001	<0.001	<0.001	
5/19/2016					<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016		<0.001	<0.001		
9/14/2016	<0.001			<0.001	<0.001
11/9/2016		<0.001			
11/10/2016			<0.001		
11/11/2016				<0.001	<0.001
1/18/2017		<0.001	<0.001		
1/19/2017	<0.001				
1/27/2017					<0.001
2/6/2017				<0.001	
3/14/2017	<0.001	<0.001	<0.001		
3/15/2017				<0.001	<0.001
4/25/2017	<0.001	<0.001	<0.001		
4/26/2017				<0.001	<0.001
8/8/2017		<0.001	<0.001		
8/9/2017	<0.001				
8/10/2017				<0.001	<0.001
3/28/2018	<0.001	<0.001	<0.001		
3/29/2018					<0.001
3/30/2018				<0.001	
2/26/2019	0.00028 (J)	0.00037 (J)	<0.001		
2/27/2019				0.00023 (J)	0.00058 (J)
4/2/2019	<0.001	<0.001	<0.001		
4/3/2019					<0.001
4/4/2019				<0.001	
9/16/2019	<0.001	<0.001			
9/18/2019			<0.001		
9/19/2019				0.00041 (J)	<0.001
2/4/2020	0.00024 (J)	<0.001			
2/5/2020			<0.001	0.00016 (J)	<0.001
3/17/2020	<0.001	0.00017 (J)	<0.001		
3/18/2020				0.00021 (J)	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

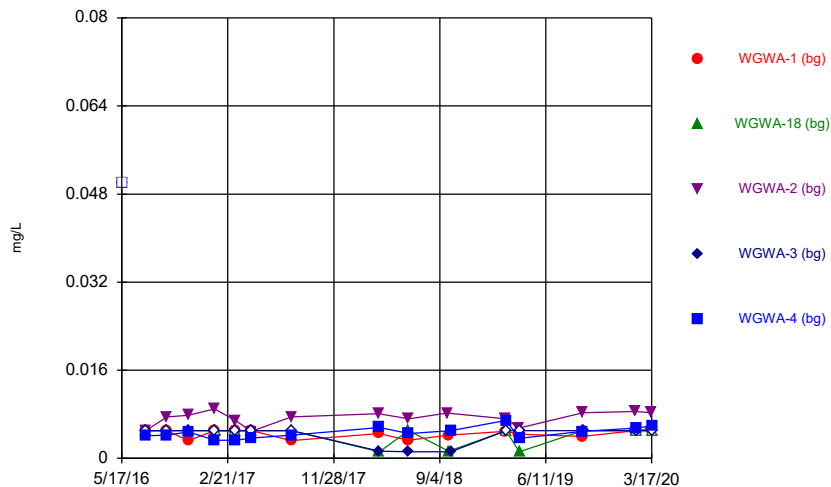
	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.001	<0.001
5/19/2016	<0.001	<0.001			
7/19/2016				<0.001	<0.001
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	0.00055 (J)		<0.001	<0.001
11/10/2016		0.00047 (J)		<0.001	<0.001
11/11/2016	<0.001				
1/24/2017				<0.001	<0.001
1/27/2017	<0.001	<0.001			
2/8/2017			<0.001		
2/23/2017			<0.001		
3/14/2017				<0.001	
3/15/2017	<0.001	<0.001			<0.001
3/17/2017			<0.001		
4/11/2017			<0.001		
4/25/2017				<0.001	<0.001
4/26/2017	<0.001	<0.001	<0.001		
5/17/2017			<0.001		
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017		<0.001		<0.001	<0.001
8/10/2017	<0.001				
3/29/2018	<0.001	<0.001	<0.001		<0.001
3/30/2018				<0.001	
2/27/2019	<0.001	0.00068 (J)	<0.001	<0.001	0.00014 (J)
4/3/2019	<0.001	0.00047 (J)	<0.001		
4/4/2019				<0.001	<0.001
9/18/2019		0.00045 (J)	<0.001	<0.001	<0.001
9/19/2019	<0.001				
2/5/2020	<0.001	0.00045 (J)	<0.001		
2/7/2020				<0.001	<0.001
3/18/2020	<0.001			<0.001	<0.001
3/19/2020		0.0006 (J)	0.00017 (J)		

Time Series

Constituent: Lead (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

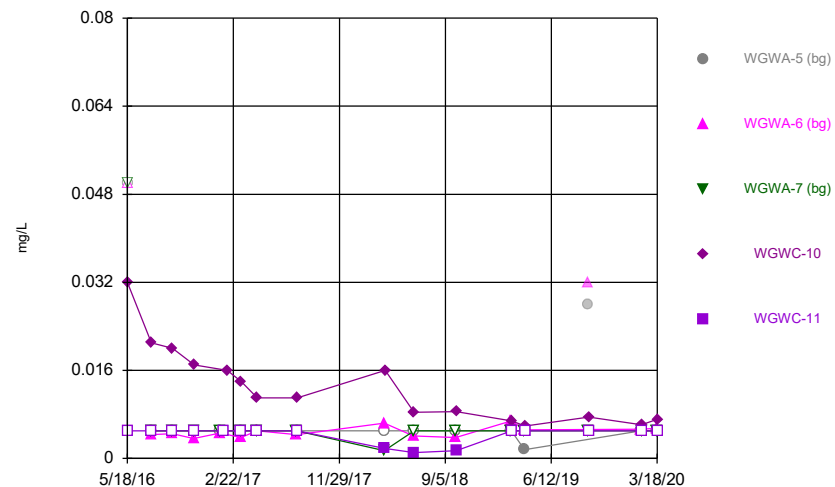
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001			
5/19/2016			<0.001	<0.001
7/20/2016	<0.001		<0.001	<0.001
9/14/2016	<0.001			<0.001
9/15/2016			<0.001	
11/10/2016	<0.001			
11/11/2016		<0.001		
11/14/2016			<0.001	
1/20/2017	<0.001			
2/6/2017		<0.001	<0.001	
2/9/2017				<0.001
3/14/2017	<0.001			
3/15/2017		<0.001	<0.001	<0.001
4/11/2017		<0.001		<0.001
4/25/2017	<0.001			
4/26/2017		<0.001	<0.001	<0.001
6/7/2017		<0.001		
7/11/2017		<0.001		
8/9/2017	<0.001			
8/10/2017		<0.001	<0.001	<0.001
3/29/2018		<0.001	<0.001	<0.001
3/30/2018	<0.001			
2/26/2019	0.00033 (J)			
2/27/2019			0.00017 (J)	
2/28/2019		<0.001		0.00014 (J)
4/2/2019		<0.001		
4/3/2019			<0.001	<0.001
4/4/2019	<0.001			
9/18/2019	<0.001	<0.001		
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020	<0.001	<0.001	<0.001	
3/18/2020	0.0002 (J)			
3/19/2020			0.00016 (J)	<0.001
5/4/2020		<0.001		

Time Series



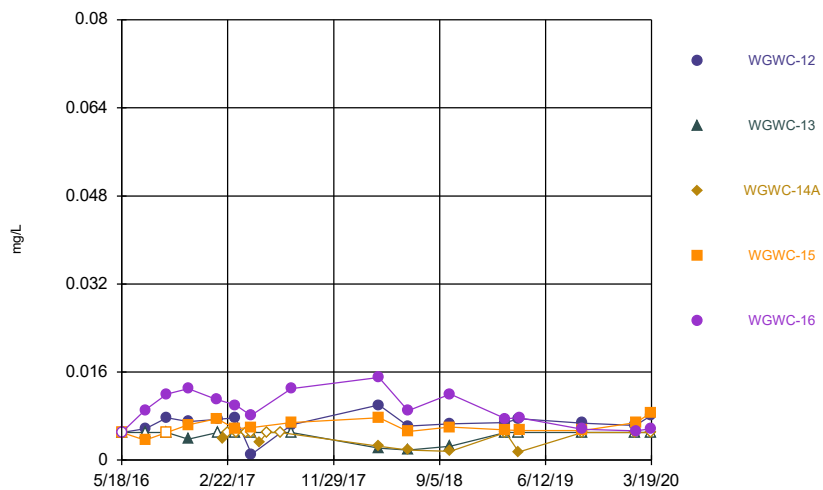
Constituent: Lithium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



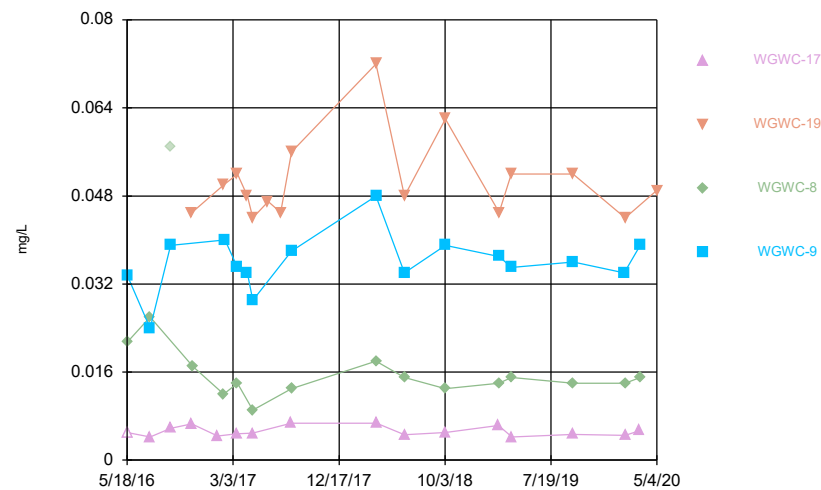
Constituent: Lithium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Lithium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Lithium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.05 (o)	<0.05 (o)	<0.05 (o)		
5/18/2016				<0.05 (o)	<0.05 (o)
7/19/2016	<0.005	<0.005	0.005		
7/20/2016				<0.005	0.0041 (J)
9/13/2016	<0.005	<0.005	0.0075	<0.005	0.0042 (J)
11/9/2016	0.0032 (J)	<0.005	0.0078		
11/10/2016				<0.005	0.0048 (J)
1/17/2017	<0.005		0.009		
1/18/2017				<0.005	0.0033 (J)
1/19/2017		<0.005			
3/13/2017	<0.005		0.0069		
3/14/2017		<0.005		<0.005	0.0033 (J)
4/24/2017	<0.005		0.0049 (J)		
4/25/2017		<0.005		<0.005	0.0037 (J)
8/8/2017	0.0032 (J)	<0.005	0.0075	<0.005	
8/9/2017					0.0042 (J)
3/27/2018	0.0045 (J)		0.0081		
3/28/2018		0.0012 (J)		0.0013 (J)	0.0056
6/13/2018	0.0033 (J)	<0.005			
6/14/2018			0.0072	0.0012 (J)	0.0045 (J)
9/24/2018			0.0082		
9/27/2018	0.0042 (J)				
9/28/2018		0.0013 (J)			
10/3/2018				0.0012 (J)	0.005
2/25/2019	0.0049 (J)		0.0072		
2/26/2019		<0.005		<0.005	0.0069
4/1/2019	0.0044 (J)		0.0055		
4/2/2019		0.0012 (J)		<0.005	0.0036 (J)
9/16/2019	0.004 (J)				
9/17/2019		<0.005	0.0083		0.0049 (J)
9/18/2019				<0.005	
2/3/2020	<0.005		0.0085		
2/4/2020				<0.005	0.0055
2/5/2020		<0.005			
3/16/2020	0.0053		0.0083		
3/17/2020		<0.005		<0.005	0.0059

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.05 (o)	<0.05 (o)	<0.05 (o)	0.032	
5/19/2016					<0.005
7/19/2016	<0.005	0.0043 (J)	<0.005		
7/20/2016				0.021	<0.005
9/13/2016		0.0045 (J)	<0.005		
9/14/2016	<0.005			0.02	<0.005
11/9/2016		0.0036 (J)			
11/10/2016			<0.005		
11/11/2016				0.017	<0.005
1/18/2017		0.0046 (J)	<0.005		
1/19/2017	<0.005				
1/27/2017					<0.005
2/6/2017				0.016	
3/14/2017	<0.005	0.0038 (J)	<0.005		
3/15/2017				0.014	<0.005
4/25/2017	<0.005	<0.005	<0.005		
4/26/2017				0.011	<0.005
8/8/2017		0.0043 (J)	<0.005		
8/9/2017	<0.005				
8/10/2017				0.011	<0.005
3/28/2018	<0.005	0.0064	0.0014 (J)		
3/29/2018					0.0018 (J)
3/30/2018				0.016	
6/13/2018	<0.005	0.0041 (J)			
6/14/2018			<0.005	0.0084	0.0011 (J)
10/2/2018		0.0038 (J)			
10/3/2018	<0.005		<0.005		
10/4/2018				0.0085	0.0014 (J)
2/26/2019	<0.005	0.0068	<0.005		
2/27/2019				0.0068	<0.005
4/2/2019	0.0016 (J)	0.0052	<0.005		
4/3/2019					<0.005
4/4/2019				0.0059	
9/16/2019	0.028 (o)	0.032 (o)			
9/18/2019			<0.005		
9/19/2019				0.0075	<0.005
2/4/2020	<0.005	0.0053			
2/5/2020			<0.005	0.0061	<0.005
3/17/2020	<0.005	0.0055	<0.005		
3/18/2020				0.0071	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.005	<0.005
5/19/2016	<0.005	<0.005			
7/19/2016				0.0036 (J)	0.0091
7/20/2016	0.0057	<0.005			
9/14/2016	0.0077	<0.005		<0.005	0.012
11/10/2016		0.0038 (J)		0.0064	0.013
11/11/2016	0.007				
1/24/2017				0.0075	0.011
1/27/2017	0.0074	<0.005			
2/8/2017			0.0039 (J)		
2/23/2017			<0.005		
3/14/2017				0.0057	
3/15/2017	0.0077	<0.005			0.01
3/17/2017			<0.005		
4/11/2017			<0.005		
4/25/2017				0.0059	0.0081
4/26/2017	0.0011	<0.005	<0.005		
5/17/2017			0.0033 (J)		
6/7/2017			<0.005		
7/11/2017			<0.005		
8/9/2017		<0.005		0.0068	0.013
8/10/2017	0.0064				
3/29/2018	0.01	0.0022 (J)	0.0025 (J)		0.015
3/30/2018				0.0077	
6/14/2018	0.0062	0.0018 (J)	0.0018 (J)	0.0052	0.009
10/3/2018				0.006	
10/4/2018	0.0066	0.0025 (J)	0.0016 (J)		0.012
2/27/2019	0.0068	<0.005	<0.005	0.0055	0.0075
4/3/2019	0.0075	<0.005	0.0015 (J)		
4/4/2019				0.0054	0.0077
9/18/2019		<0.005	<0.005	0.0054	0.0056
9/19/2019	0.0067				
2/5/2020	0.0063	<0.005	<0.005		
2/7/2020				0.0068	0.0053
3/18/2020	0.0081			0.0086	0.0057
3/19/2020		<0.005	<0.005		

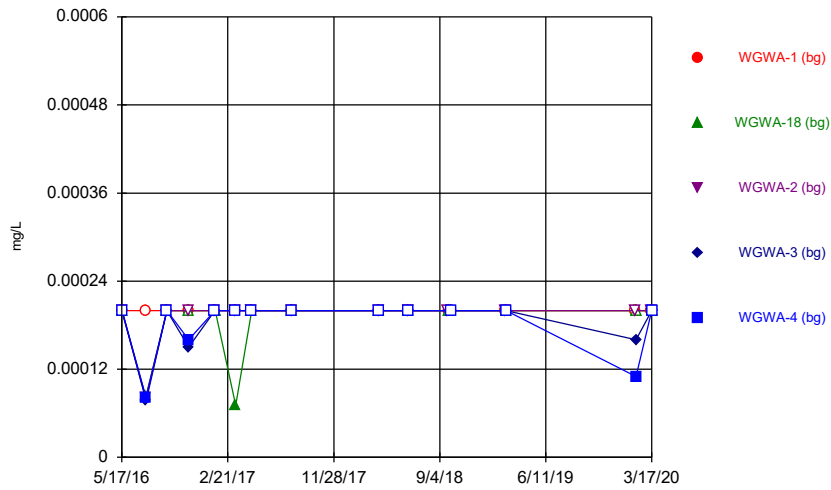
Time Series

Constituent: Lithium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

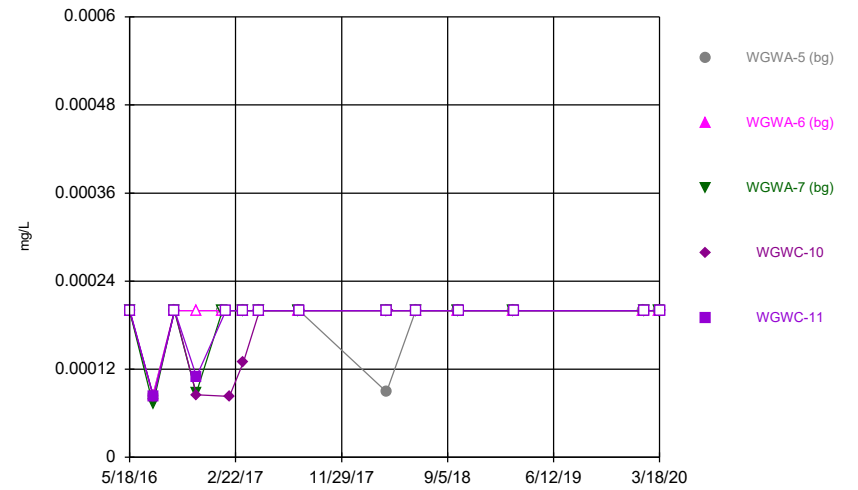
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.005			
5/19/2016			0.0215	0.0335
7/20/2016	0.0042 (J)		0.026	0.024
9/14/2016	0.0058			0.039
9/15/2016			0.057 (o)	
11/10/2016	0.0066			
11/11/2016		0.045		
11/14/2016			0.017	
1/20/2017	0.0044 (J)			
2/6/2017		0.05	0.012	
2/9/2017				0.04
3/14/2017	0.0048 (J)			
3/15/2017		0.052	0.014	0.035
4/11/2017		0.048		0.034
4/25/2017	0.0049 (J)			
4/26/2017		0.044	0.0091	0.029
6/7/2017		0.047		
7/11/2017		0.045		
8/9/2017	0.0067			
8/10/2017		0.056	0.013	0.038
3/29/2018		0.072	0.018	0.048
3/30/2018	0.0067			
6/14/2018	0.0046 (J)	0.048	0.015	0.034
10/4/2018	0.005	0.062	0.013	0.039
2/26/2019	0.0063			
2/27/2019			0.014	
2/28/2019		0.045		0.037
4/2/2019		0.052		
4/3/2019			0.015	0.035
4/4/2019	0.0042 (J)			
9/18/2019	0.0047 (J)	0.052		
9/19/2019			0.014	0.036
2/5/2020				0.034
2/7/2020	0.0045 (J)	0.044	0.014	
3/18/2020	0.0054			
3/19/2020			0.015	0.039
5/4/2020		0.049		

Time Series



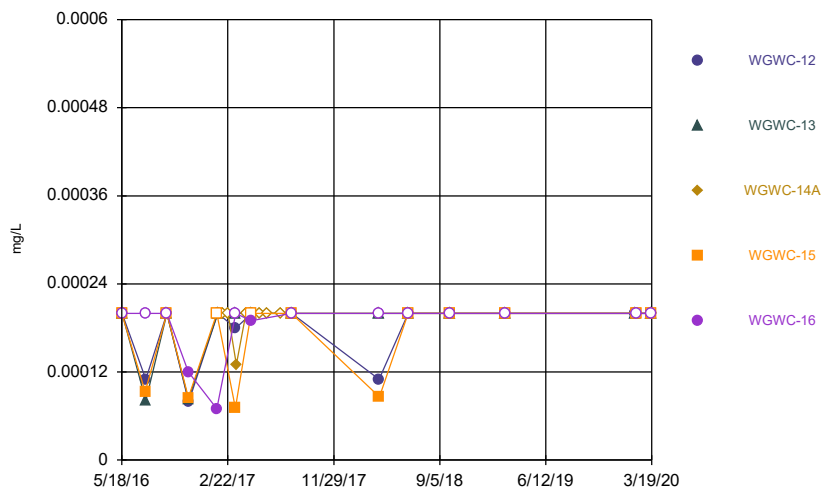
Constituent: Mercury Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



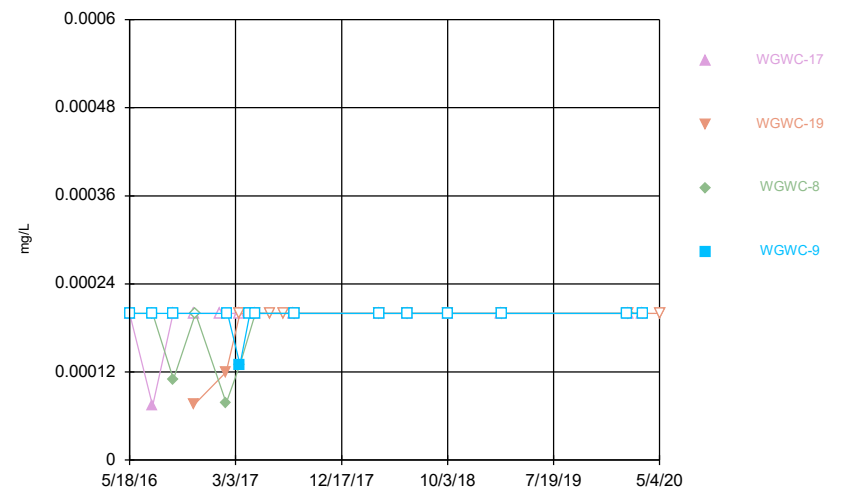
Constituent: Mercury Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Mercury Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Mercury Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.0002	<0.0002	<0.0002		
5/18/2016				<0.0002	<0.0002
7/19/2016	<0.0002	8.2E-05 (J)	8.1E-05 (J)		
7/20/2016				7.7E-05 (J)	8.1E-05 (J)
9/13/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/9/2016	<0.0002	<0.0002	<0.0002		
11/10/2016				0.00015 (J)	0.00016 (J)
1/17/2017	<0.0002		<0.0002		
1/18/2017				<0.0002	<0.0002
1/19/2017		<0.0002			
3/13/2017	<0.0002		<0.0002		
3/14/2017		7.1E-05 (J)		<0.0002	<0.0002
4/24/2017	<0.0002		<0.0002		
4/25/2017		<0.0002		<0.0002	<0.0002
8/8/2017	<0.0002	<0.0002	<0.0002	<0.0002	
8/9/2017					<0.0002
3/27/2018	<0.0002		<0.0002		
3/28/2018		<0.0002		<0.0002	<0.0002
6/13/2018	<0.0002	<0.0002			
6/14/2018			<0.0002	<0.0002	<0.0002
9/24/2018			<0.0002		
9/27/2018	<0.0002				
9/28/2018		<0.0002			
10/3/2018				<0.0002	<0.0002
2/25/2019	<0.0002		<0.0002		
2/26/2019		<0.0002		<0.0002	<0.0002
2/3/2020	<0.0002		<0.0002		
2/4/2020				0.00016 (J)	0.00011 (J)
2/5/2020		<0.0002			
3/16/2020	<0.0002		<0.0002		
3/17/2020		<0.0002		<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.0002	<0.0002	<0.0002	<0.0002	
5/19/2016					<0.0002
7/19/2016	8.5E-05 (J)	8.4E-05 (J)	7.2E-05 (J)		
7/20/2016				8.2E-05 (J)	8.2E-05 (J)
9/13/2016		<0.0002	<0.0002		
9/14/2016	<0.0002			<0.0002	<0.0002
11/9/2016		<0.0002			
11/10/2016			8.7E-05 (J)		
11/11/2016				8.5E-05 (J)	0.00011 (J)
1/18/2017		<0.0002	<0.0002		
1/19/2017	<0.0002				
1/27/2017					<0.0002
2/6/2017				8.3E-05 (J)	
3/14/2017	<0.0002	<0.0002	<0.0002		
3/15/2017				0.00013 (J)	<0.0002
4/25/2017	<0.0002	<0.0002	<0.0002		
4/26/2017				<0.0002	<0.0002
8/8/2017		<0.0002	<0.0002		
8/9/2017	<0.0002				
8/10/2017				<0.0002	<0.0002
3/28/2018	8.9E-05 (J)	<0.0002	<0.0002		
3/29/2018					<0.0002
3/30/2018				<0.0002	
6/13/2018	<0.0002	<0.0002			
6/14/2018			<0.0002	<0.0002	<0.0002
10/2/2018		<0.0002			
10/3/2018	<0.0002		<0.0002		
10/4/2018				<0.0002	<0.0002
2/26/2019	<0.0002	<0.0002	<0.0002		
2/27/2019				<0.0002	<0.0002
2/4/2020	<0.0002	<0.0002			
2/5/2020			<0.0002	<0.0002	<0.0002
3/17/2020	<0.0002	<0.0002	<0.0002		
3/18/2020				<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.0002	<0.0002
5/19/2016	<0.0002	<0.0002			
7/19/2016				9.3E-05 (J)	<0.0002
7/20/2016	0.00011 (J)	8.1E-05 (J)			
9/14/2016	<0.0002	<0.0002		<0.0002	<0.0002
11/10/2016		8.3E-05 (J)		8.5E-05 (J)	0.00012 (J)
11/11/2016	7.9E-05 (J)				
1/24/2017				<0.0002	7E-05 (J)
1/27/2017	<0.0002	<0.0002			
2/8/2017			<0.0002		
2/23/2017			<0.0002		
3/14/2017				7.1E-05 (J)	
3/15/2017	0.00018 (J)	<0.0002			<0.0002
3/17/2017			0.00013 (J)		
4/11/2017			<0.0002		
4/25/2017				<0.0002	0.00019 (J)
4/26/2017	<0.0002	<0.0002	<0.0002		
5/17/2017			<0.0002		
6/7/2017			<0.0002		
7/11/2017			<0.0002		
8/9/2017		<0.0002		<0.0002	<0.0002
8/10/2017	<0.0002				
3/29/2018	0.00011 (J)	<0.0002	<0.0002		<0.0002
3/30/2018				8.6E-05 (J)	
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/3/2018				<0.0002	
10/4/2018	<0.0002	<0.0002	<0.0002		<0.0002
2/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2020	<0.0002	<0.0002	<0.0002		
2/7/2020				<0.0002	<0.0002
3/18/2020	<0.0002			<0.0002	<0.0002
3/19/2020		<0.0002	<0.0002		

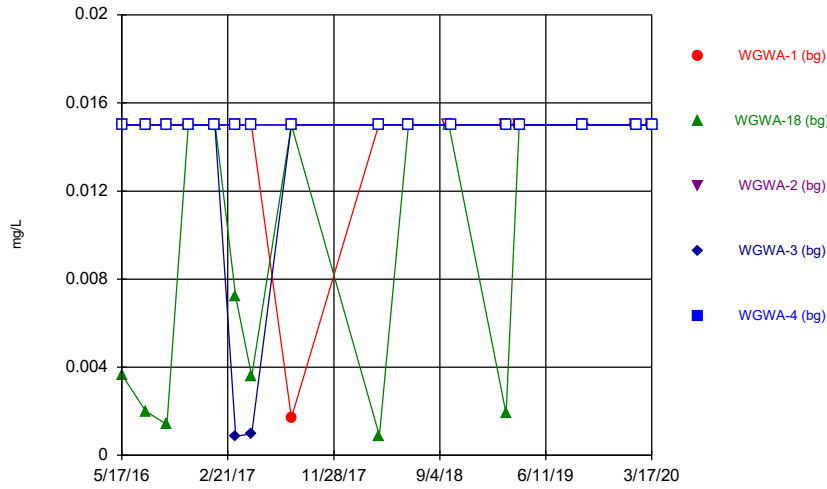
Time Series

Constituent: Mercury (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

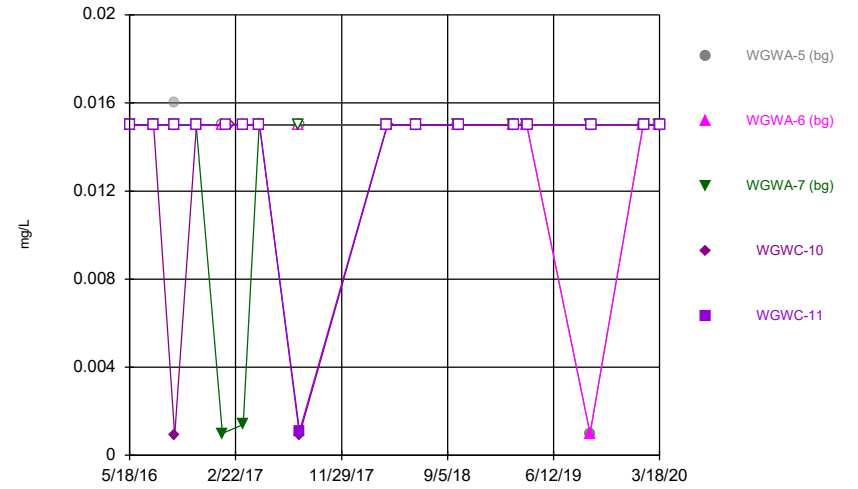
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0002			
5/19/2016			<0.0002	<0.0002
7/20/2016	7.4E-05 (J)		<0.0002	<0.0002
9/14/2016	<0.0002			<0.0002
9/15/2016			0.00011 (J)	
11/10/2016	<0.0002			
11/11/2016		7.6E-05 (J)		
11/14/2016			<0.0002	
1/20/2017	<0.0002			
2/6/2017		0.00012 (J)	7.8E-05 (J)	
2/9/2017				<0.0002
3/14/2017	<0.0002			
3/15/2017		<0.0002	0.00013 (J)	0.00013 (J)
4/11/2017		<0.0002		<0.0002
4/25/2017	<0.0002			
4/26/2017		<0.0002	<0.0002	<0.0002
6/7/2017		<0.0002		
7/11/2017		<0.0002		
8/9/2017	<0.0002			
8/10/2017		<0.0002	<0.0002	<0.0002
3/29/2018		<0.0002	<0.0002	<0.0002
3/30/2018	<0.0002			
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002
10/4/2018	<0.0002	<0.0002	<0.0002	<0.0002
2/26/2019	<0.0002			
2/27/2019			<0.0002	
2/28/2019		<0.0002		<0.0002
2/5/2020				<0.0002
2/7/2020	<0.0002	<0.0002	<0.0002	
3/18/2020	<0.0002			
3/19/2020			<0.0002	<0.0002
5/4/2020		<0.0002		

Time Series



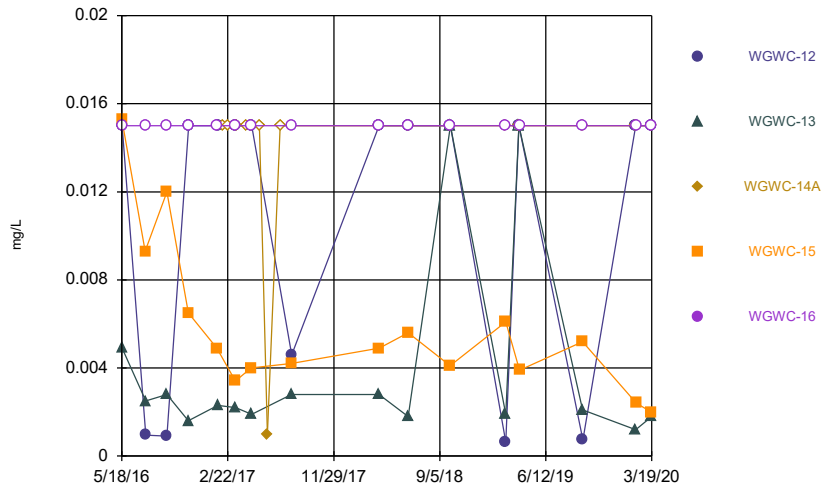
Constituent: Molybdenum Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



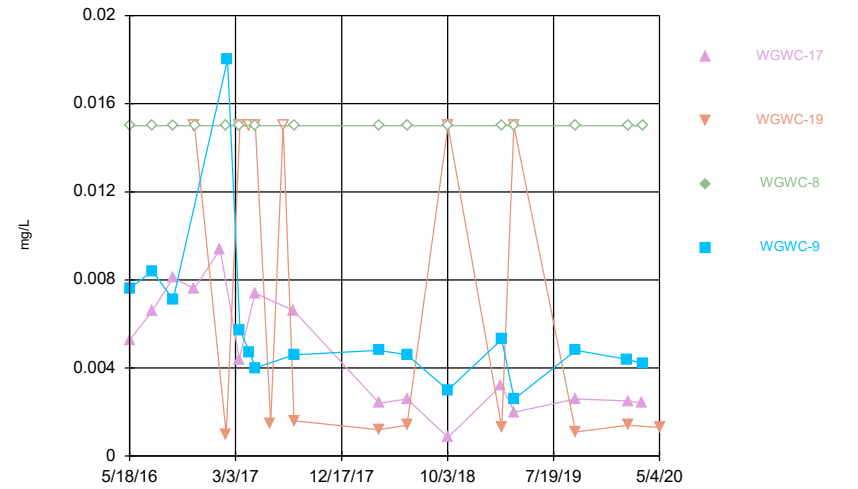
Constituent: Molybdenum Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Molybdenum Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Molybdenum Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.015	0.00367 (J)	<0.015		
5/18/2016				<0.015	<0.015
7/19/2016	<0.015	0.002 (J)	<0.015		
7/20/2016				<0.015	<0.015
9/13/2016	<0.015	0.0014 (J)	<0.015	<0.015	<0.015
11/9/2016	<0.015	<0.015	<0.015		
11/10/2016				<0.015	<0.015
1/17/2017	<0.015		<0.015		
1/18/2017				<0.015	<0.015
1/19/2017		<0.015			
3/13/2017	<0.015		<0.015		
3/14/2017		0.0072 (J)		0.00087 (J)	<0.015
4/24/2017	<0.015		<0.015		
4/25/2017		0.0036 (J)		0.00098 (J)	<0.015
8/8/2017	0.0017 (J)	<0.015	<0.015	<0.015	
8/9/2017					<0.015
3/27/2018	<0.015		<0.015		
3/28/2018		0.00089 (J)		<0.015	<0.015
6/13/2018	<0.015	<0.015			
6/14/2018			<0.015	<0.015	<0.015
9/24/2018			<0.015		
9/27/2018	<0.015				
9/28/2018		<0.015			
10/3/2018				<0.015	<0.015
2/25/2019	<0.015		<0.015		
2/26/2019		0.0019 (J)		<0.015	<0.015
4/1/2019	<0.015		<0.015		
4/2/2019		<0.015		<0.015	<0.015
9/16/2019	<0.015				
9/17/2019		<0.015	<0.015		<0.015
9/18/2019				<0.015	
2/3/2020	<0.015		<0.015		
2/4/2020				<0.015	<0.015
2/5/2020		<0.015			
3/16/2020	<0.015		<0.015		
3/17/2020		<0.015		<0.015	<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.015	<0.015	<0.015	<0.015	
5/19/2016					<0.015
7/19/2016	<0.015	<0.015	<0.015		
7/20/2016				<0.015	<0.015
9/13/2016		<0.015	<0.015		
9/14/2016	0.016 (o)			0.00091 (J)	<0.015
11/9/2016		<0.015			
11/10/2016			<0.015		
11/11/2016				<0.015	<0.015
1/18/2017		<0.015	0.001 (J)		
1/19/2017	<0.015				
1/27/2017					<0.015
2/6/2017				<0.015	
3/14/2017	<0.015	<0.015	0.0014 (J)		
3/15/2017				<0.015	<0.015
4/25/2017	<0.015	<0.015	<0.015		
4/26/2017				<0.015	<0.015
8/8/2017		<0.015	<0.015		
8/9/2017	<0.015				
8/10/2017				0.00093 (J)	0.0011 (J)
3/28/2018	<0.015	<0.015	<0.015		
3/29/2018					<0.015
3/30/2018				<0.015	
6/13/2018	<0.015	<0.015			
6/14/2018			<0.015	<0.015	<0.015
10/2/2018		<0.015			
10/3/2018	<0.015		<0.015		
10/4/2018				<0.015	<0.015
2/26/2019	<0.015	<0.015	<0.015		
2/27/2019				<0.015	<0.015
4/2/2019	<0.015	<0.015	<0.015		
4/3/2019					<0.015
4/4/2019				<0.015	
9/16/2019	0.001 (J)	0.001 (J)			
9/18/2019			<0.015		
9/19/2019				<0.015	<0.015
2/4/2020	<0.015	<0.015			
2/5/2020			<0.015	<0.015	<0.015
3/17/2020	<0.015	<0.015	<0.015		
3/18/2020				<0.015	<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.0153	<0.015
5/19/2016	<0.015	0.00491 (J)			
7/19/2016				0.0093 (J)	<0.015
7/20/2016	0.00095 (J)	0.0025 (J)			
9/14/2016	0.0009 (J)	0.0028 (J)		0.012 (J)	<0.015
11/10/2016		0.0016 (J)		0.0065 (J)	<0.015
11/11/2016	<0.015				
1/24/2017				0.0049 (J)	<0.015
1/27/2017	<0.015	0.0023 (J)			
2/8/2017			<0.015		
2/23/2017			<0.015		
3/14/2017				0.0034 (J)	
3/15/2017	<0.015	0.0022 (J)			<0.015
3/17/2017			<0.015		
4/11/2017			<0.015		
4/25/2017				0.004 (J)	<0.015
4/26/2017	<0.015	0.0019 (J)	<0.015		
5/17/2017			<0.015		
6/7/2017			0.001 (J)		
7/11/2017			<0.015		
8/9/2017		0.0028 (J)		0.0042 (J)	<0.015
8/10/2017	0.0046 (J)				
3/29/2018	<0.015	0.0028 (J)	<0.015		<0.015
3/30/2018				0.0049 (J)	
6/14/2018	<0.015	0.0018 (J)	<0.015	0.0056 (J)	<0.015
10/3/2018				0.0041 (J)	
10/4/2018	<0.015	<0.015	<0.015		<0.015
2/27/2019	0.00063 (J)	0.0019 (J)	<0.015	0.0061	<0.015
4/3/2019	<0.015	<0.015	<0.015		
4/4/2019				0.0039 (J)	<0.015
9/18/2019		0.0021 (J)	<0.015	0.0052	<0.015
9/19/2019	0.00073 (J)				
2/5/2020	<0.015	0.0012 (J)	<0.015		
2/7/2020				0.0024 (J)	<0.015
3/18/2020	<0.015			0.002 (J)	<0.015
3/19/2020		0.0018 (J)	<0.015		

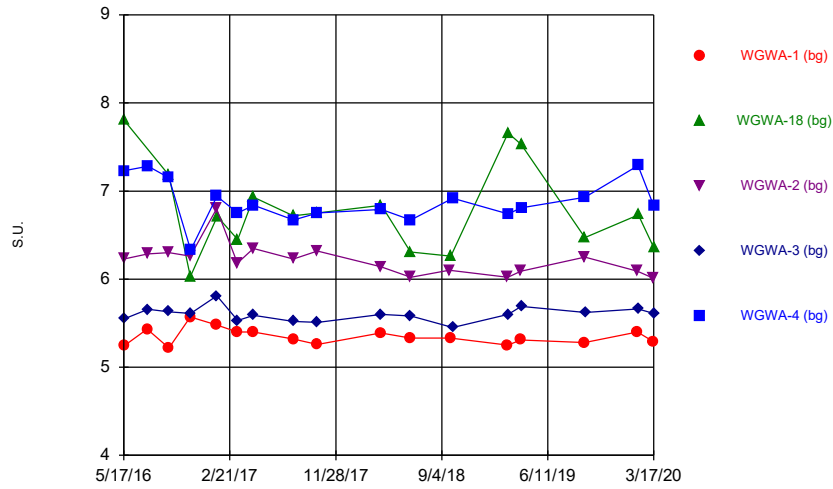
Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

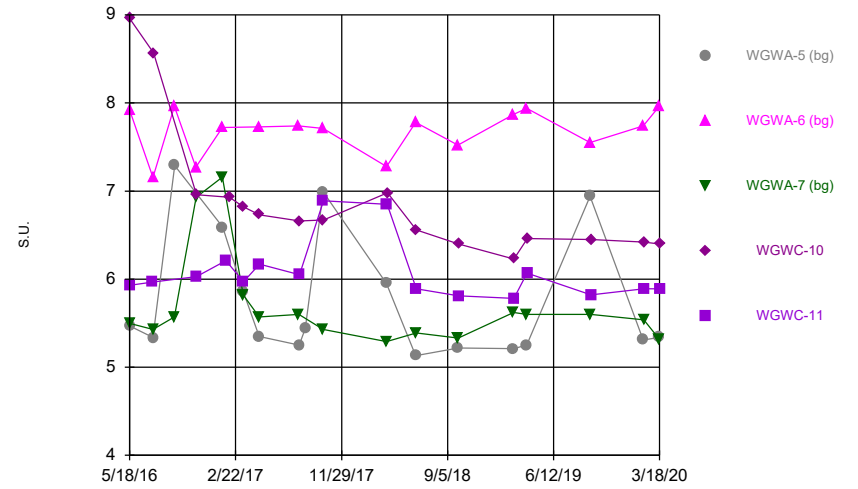
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.00526 (J)			
5/19/2016			<0.015	0.00762 (J)
7/20/2016	0.0066 (J)		<0.015	0.0084 (J)
9/14/2016	0.0081 (J)			0.0071 (J)
9/15/2016			<0.015	
11/10/2016	0.0076 (J)			
11/11/2016		<0.015		
11/14/2016			<0.015	
1/20/2017	0.0094 (J)			
2/6/2017		0.001 (J)	<0.015	
2/9/2017				0.018
3/14/2017	0.0044 (J)			
3/15/2017		<0.015	<0.015	0.0057 (J)
4/11/2017		<0.015		0.0047 (J)
4/25/2017	0.0074 (J)			
4/26/2017		<0.015	<0.015	0.004 (J)
6/7/2017		0.0015 (J)		
7/11/2017		<0.015		
8/9/2017	0.0066 (J)			
8/10/2017		0.0016 (J)	<0.015	0.0046 (J)
3/29/2018		0.0012 (J)	<0.015	0.0048 (J)
3/30/2018	0.0024 (J)			
6/14/2018	0.0026 (J)	0.0014 (J)	<0.015	0.0046 (J)
10/4/2018	0.00085 (J)	<0.015	<0.015	0.003 (J)
2/26/2019	0.0032 (J)			
2/27/2019			<0.015	
2/28/2019		0.0013 (J)		0.0053
4/2/2019		<0.015		
4/3/2019			<0.015	0.0026 (J)
4/4/2019	0.002 (J)			
9/18/2019	0.0026 (J)	0.0011 (J)		
9/19/2019			<0.015	0.0048 (J)
2/5/2020				0.0044 (J)
2/7/2020	0.0025 (J)	0.0014 (J)	<0.015	
3/18/2020	0.0024 (J)			
3/19/2020			<0.015	0.0042 (J)
5/4/2020		0.0013 (J)		

Time Series



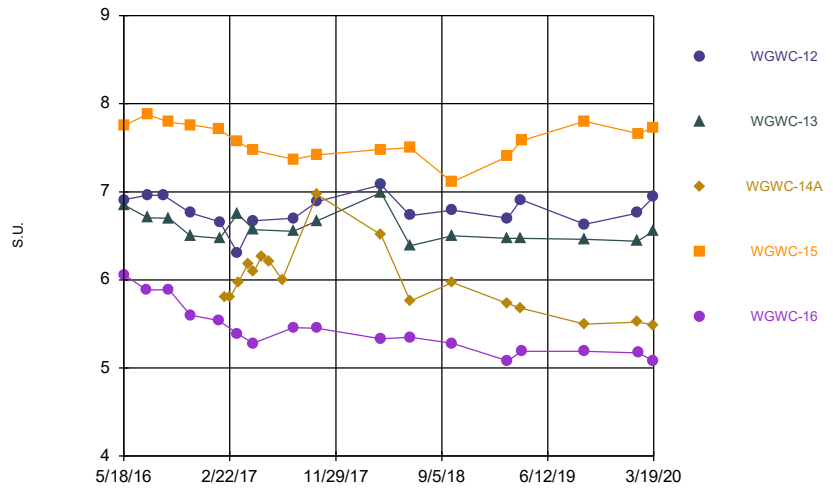
Constituent: pH Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



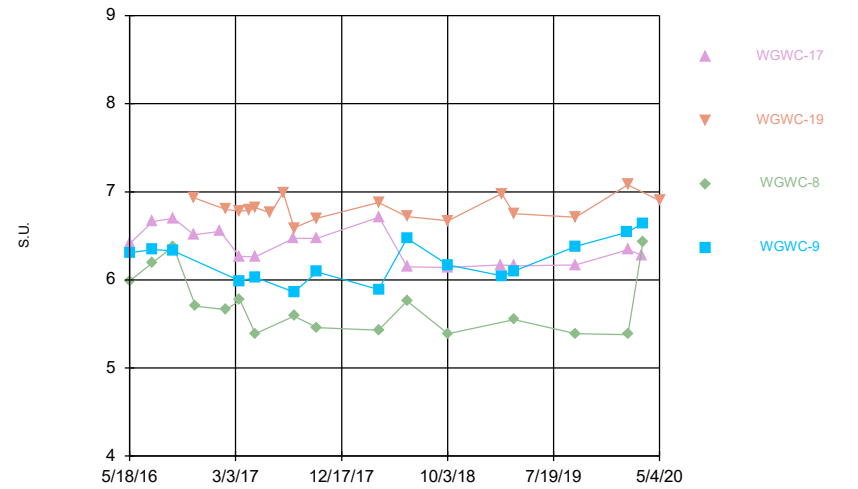
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Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: pH Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: pH Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: pH (S.U.) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	5.24	7.81	6.23		
5/18/2016				5.55	7.23
7/18/2016	5.434038				
7/19/2016			6.285413		
7/20/2016				5.656628	7.281557
9/13/2016	5.22	7.18	6.3	5.63	7.15
11/9/2016	5.57	6.03	6.26		
11/10/2016				5.61	6.33
1/17/2017	5.48		6.8		
1/18/2017				5.81	6.94
1/19/2017		6.71			
3/13/2017	5.4		6.18		
3/14/2017		6.45		5.53	6.75
4/24/2017	5.4		6.35		
4/25/2017		6.93		5.59	6.84
8/8/2017	5.32	6.72	6.23	5.52	
8/9/2017					6.67
10/10/2017	5.26		6.32		
10/11/2017		6.75		5.51	6.75
3/27/2018	5.39		6.14		
3/28/2018		6.84		5.6	6.79
6/13/2018	5.33	6.31			
6/14/2018			6.02	5.58	6.67
9/24/2018			6.1		
9/27/2018	5.33				
9/28/2018		6.26			
10/3/2018				5.45	6.92
2/25/2019	5.25		6.02		
2/26/2019		7.66		5.6	6.74
4/1/2019	5.31		6.09		
4/2/2019		7.53		5.69	6.81
9/16/2019	5.28				
9/17/2019		6.47	6.25		6.93
9/18/2019				5.62	
2/3/2020	5.4		6.09		
2/4/2020				5.66	7.29
2/5/2020		6.73			
3/16/2020	5.29		6.01		
3/17/2020		6.36		5.61	6.83

Time Series

Constituent: pH (S.U.) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	5.47	7.92	5.5	8.96	
5/19/2016					5.93
7/18/2016					5.9661
7/19/2016	5.336672	7.154587	5.43		
7/20/2016				8.56774	
9/13/2016		7.96	5.57		
9/14/2016	7.29				
11/9/2016		7.27			
11/10/2016			6.93		
11/11/2016				6.96	6.03
1/18/2017		7.72	7.16		
1/19/2017	6.59				
1/27/2017					6.21
2/6/2017				6.93	
3/14/2017	5.86		5.82		
3/15/2017				6.82	5.97
4/25/2017	5.35	7.73	5.57		
4/26/2017				6.73	6.17
8/8/2017		7.74	5.6		
8/9/2017	5.25				
8/10/2017				6.66	6.05
8/25/2017	5.44				
10/11/2017	6.99	7.71	5.43		
10/12/2017				6.67	6.89
3/28/2018	5.95	7.28	5.29		
3/29/2018					6.85
3/30/2018				6.98	
6/13/2018	5.13	7.78			
6/14/2018			5.39	6.56	5.89
10/2/2018		7.52			
10/3/2018	5.22		5.33		
10/4/2018				6.4	5.81
2/26/2019	5.21	7.87	5.62		
2/27/2019				6.23	5.78
4/2/2019	5.25	7.94	5.6		
4/3/2019					6.07
4/4/2019				6.46	
9/16/2019	6.94	7.55			
9/18/2019			5.6		
9/19/2019				6.45	5.82
2/4/2020	5.31	7.74			
2/5/2020			5.54	6.42	5.89
3/17/2020	5.34	7.96	5.32		
3/18/2020				6.4	5.89

Time Series

Constituent: pH (S.U.) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				7.75	6.06
5/19/2016	6.91	6.85			
7/18/2016					5.884339
7/19/2016				7.876073	
7/20/2016	6.962608	6.705264			
9/1/2016	6.96				
9/14/2016		6.7		7.79	5.89
11/10/2016		6.5		7.76	5.6
11/11/2016	6.76				
1/24/2017				7.71	5.54
1/27/2017	6.66	6.47			
2/8/2017			5.81		
2/23/2017			5.8		
3/14/2017				7.57	
3/15/2017	6.3	6.75			5.39
3/17/2017			5.97		
4/11/2017			6.18		
4/25/2017				7.47	5.28
4/26/2017	6.67	6.57	6.09		
5/17/2017			6.26		
6/7/2017			6.21		
7/11/2017			6		
8/9/2017		6.55		7.37	5.46
8/10/2017	6.7				
10/11/2017			6.97	7.42	5.45
10/12/2017	6.89	6.67			
3/29/2018	7.08	6.99	6.51		5.33
3/30/2018				7.48	
6/14/2018	6.73	6.39	5.76	7.5	5.35
10/3/2018				7.11	
10/4/2018	6.79	6.5	5.97		5.28
2/27/2019	6.7	6.47	5.73	7.4	5.08
4/3/2019	6.91	6.47	5.68		
4/4/2019				7.58	5.19
9/18/2019		6.46	5.5	7.8	5.19
9/19/2019	6.63				
2/5/2020	6.76	6.44	5.52		
2/7/2020				7.66	5.17
3/18/2020	6.94			7.73	5.08
3/19/2020		6.56	5.49		

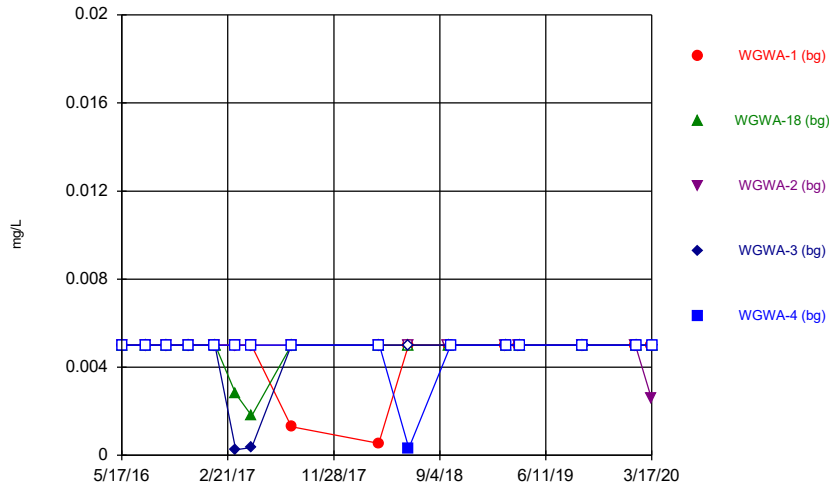
Time Series

Constituent: pH (S.U.) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

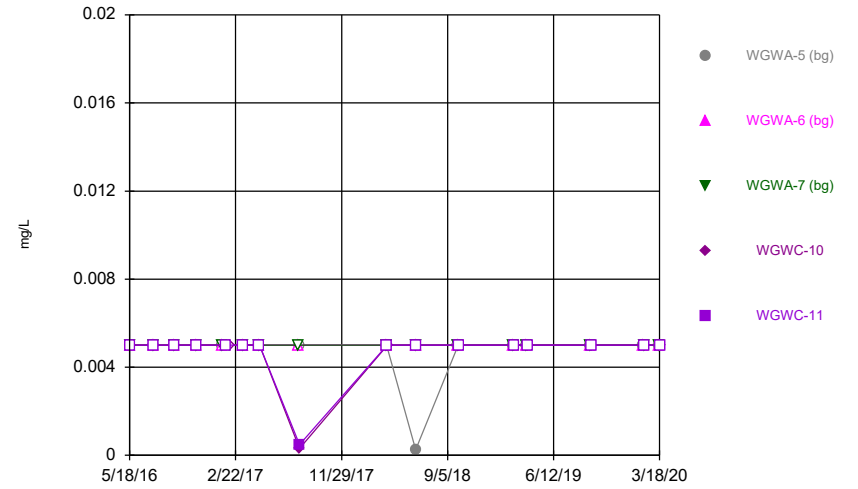
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	6.41			
5/19/2016			5.99	6.31
7/20/2016	6.662463		6.194334	6.345061
9/14/2016	6.7			6.33
9/15/2016			6.38	
11/10/2016	6.51			
11/11/2016		6.93		
11/14/2016			5.7	
1/20/2017	6.55			
2/6/2017		6.8	5.66	
3/14/2017	6.27			
3/15/2017		6.78	5.77	5.99
4/11/2017		6.79		
4/25/2017	6.26			
4/26/2017		6.82	5.39	6.03
6/7/2017		6.76		
7/11/2017		6.99		
8/9/2017	6.47			
8/10/2017		6.59	5.59	5.86
10/11/2017	6.47			
10/12/2017		6.7	5.46	6.09
3/29/2018		6.88	5.43	5.89
3/30/2018	6.71			
6/14/2018	6.15	6.72	5.76	6.47
10/4/2018	6.14	6.67	5.39	6.17
2/26/2019	6.17			
2/28/2019		6.98		6.045 (D)
4/2/2019		6.75		
4/3/2019			5.55	6.1
4/4/2019	6.16			
9/18/2019	6.17	6.71		
9/19/2019			5.39	6.38
2/5/2020				6.54
2/7/2020	6.34	7.08	5.38	
3/18/2020	6.28			
3/19/2020			6.43	6.64
5/4/2020		6.9		

Time Series



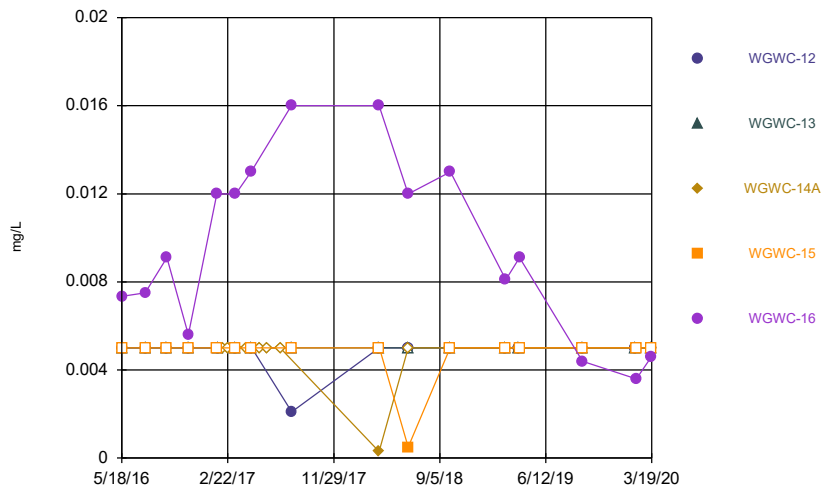
Constituent: Selenium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



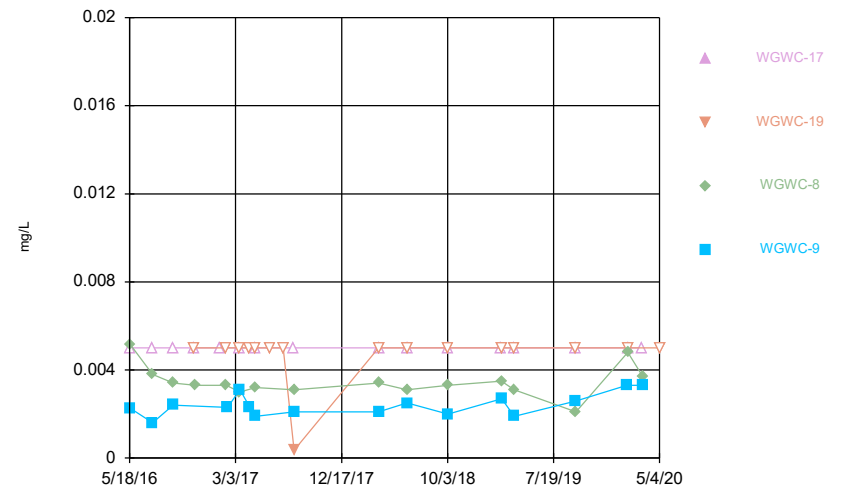
Constituent: Selenium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Selenium Analysis Run 7/22/2020 12:03 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Selenium Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.005	<0.005	<0.005		
5/18/2016				<0.005	<0.005
7/19/2016	<0.005	<0.005	<0.005		
7/20/2016				<0.005	<0.005
9/13/2016	<0.005	<0.005	<0.005	<0.005	<0.005
11/9/2016	<0.005	<0.005	<0.005		
11/10/2016				<0.005	<0.005
1/17/2017	<0.005		<0.005		
1/18/2017				<0.005	<0.005
1/19/2017		<0.005			
3/13/2017	<0.005		<0.005		
3/14/2017		0.0028		0.00026 (J)	<0.005
4/24/2017	<0.005		<0.005		
4/25/2017		0.0018		0.00035 (J)	<0.005
8/8/2017	0.0013	<0.005	<0.005	<0.005	
8/9/2017					<0.005
3/27/2018	0.00055 (J)		<0.005		
3/28/2018		<0.005		<0.005	<0.005
6/13/2018	<0.005	<0.005			
6/14/2018			<0.005	<0.005	0.00032 (J)
9/24/2018			<0.005		
9/27/2018	<0.005				
9/28/2018		<0.005			
10/3/2018				<0.005	<0.005
2/25/2019	<0.005		<0.005		
2/26/2019		<0.005		<0.005	<0.005
4/1/2019	<0.005		<0.005		
4/2/2019		<0.005		<0.005	<0.005
9/16/2019	<0.005				
9/17/2019		<0.005	<0.005		<0.005
9/18/2019				<0.005	
2/3/2020	<0.005		<0.005		
2/4/2020				<0.005	<0.005
2/5/2020		<0.005			
3/16/2020	<0.005		0.0026 (J)		
3/17/2020		<0.005		<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.005	<0.005	<0.005	<0.005	
5/19/2016					<0.005
7/19/2016	<0.005	<0.005	<0.005		
7/20/2016				<0.005	<0.005
9/13/2016		<0.005	<0.005		
9/14/2016	<0.005			<0.005	<0.005
11/9/2016		<0.005			
11/10/2016			<0.005		
11/11/2016				<0.005	<0.005
1/18/2017		<0.005	<0.005		
1/19/2017	<0.005				
1/27/2017					<0.005
2/6/2017				<0.005	
3/14/2017	<0.005	<0.005	<0.005		
3/15/2017				<0.005	<0.005
4/25/2017	<0.005	<0.005	<0.005		
4/26/2017				<0.005	<0.005
8/8/2017		<0.005	<0.005		
8/9/2017	<0.005				
8/10/2017				0.00031 (J)	0.00049 (J)
3/28/2018	<0.005	<0.005	<0.005		
3/29/2018					<0.005
3/30/2018				<0.005	
6/13/2018	0.00025 (J)	<0.005			
6/14/2018			<0.005	<0.005	<0.005
10/2/2018		<0.005			
10/3/2018	<0.005		<0.005		
10/4/2018				<0.005	<0.005
2/26/2019	<0.005	<0.005	<0.005		
2/27/2019				<0.005	<0.005
4/2/2019	<0.005	<0.005	<0.005		
4/3/2019					<0.005
4/4/2019				<0.005	
9/16/2019	<0.005	<0.005			
9/18/2019			<0.005		
9/19/2019				<0.005	<0.005
2/4/2020	<0.005	<0.005			
2/5/2020			<0.005	<0.005	<0.005
3/17/2020	<0.005	<0.005	<0.005		
3/18/2020				<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.005	0.00735
5/19/2016	<0.005	<0.005			
7/19/2016				<0.005	0.0075
7/20/2016	<0.005	<0.005			
9/14/2016	<0.005	<0.005		<0.005	0.0091
11/10/2016		<0.005		<0.005	0.0056
11/11/2016	<0.005				
1/24/2017				<0.005	0.012
1/27/2017	<0.005	<0.005			
2/8/2017			<0.005		
2/23/2017			<0.005		
3/14/2017				<0.005	
3/15/2017	<0.005	<0.005			0.012
3/17/2017			<0.005		
4/11/2017			<0.005		
4/25/2017				<0.005	0.013
4/26/2017	<0.005	<0.005	<0.005		
5/17/2017			<0.005		
6/7/2017			<0.005		
7/11/2017			<0.005		
8/9/2017		<0.005		<0.005	0.016
8/10/2017	0.0021				
3/29/2018	<0.005	<0.005	0.0003 (J)		0.016
3/30/2018				<0.005	
6/14/2018	<0.005	<0.005	<0.005	0.0005 (J)	0.012
10/3/2018				<0.005	
10/4/2018	<0.005	<0.005	<0.005		0.013
2/27/2019	<0.005	<0.005	<0.005	<0.005	0.0081
4/3/2019	<0.005	<0.005	<0.005		
4/4/2019				<0.005	0.0091
9/18/2019		<0.005	<0.005	<0.005	0.0044 (J)
9/19/2019	<0.005				
2/5/2020	<0.005	<0.005	<0.005		
2/7/2020				<0.005	0.0036 (J)
3/18/2020	<0.005			<0.005	0.0046 (J)
3/19/2020		<0.005	<0.005		

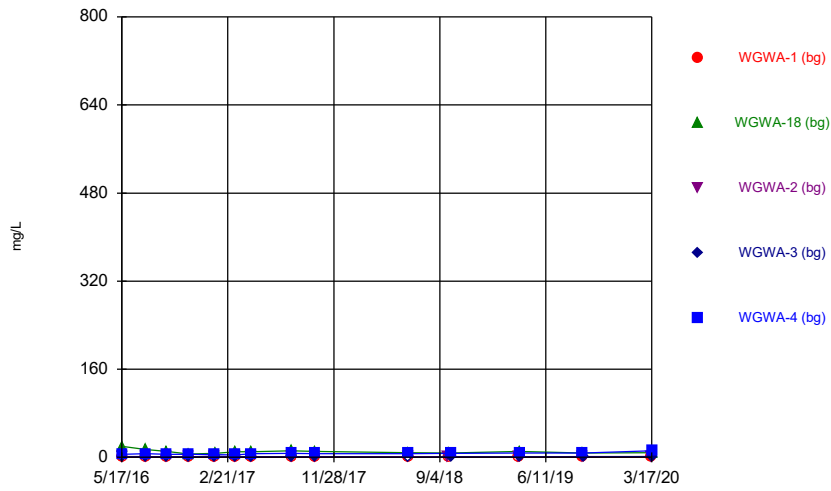
Time Series

Constituent: Selenium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

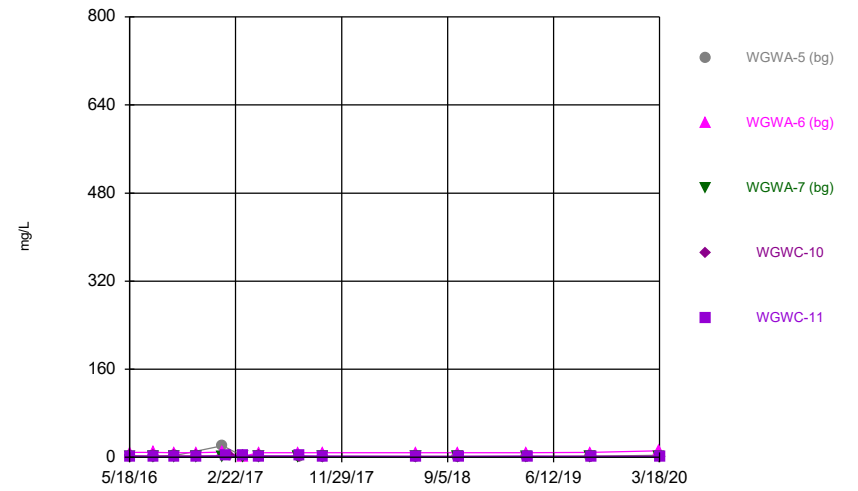
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.005			
5/19/2016			0.00518	0.00228
7/20/2016	<0.005		0.0038	0.0016
9/14/2016	<0.005			0.0024
9/15/2016			0.0034	
11/10/2016	<0.005			
11/11/2016		<0.005		
11/14/2016			0.0033	
1/20/2017	<0.005			
2/6/2017		<0.005	0.0033	
2/9/2017				0.0023
3/14/2017	<0.005			
3/15/2017		<0.005	0.003	0.0031
4/11/2017		<0.005		0.0023
4/25/2017	<0.005			
4/26/2017		<0.005	0.0032	0.0019
6/7/2017		<0.005		
7/11/2017		<0.005		
8/9/2017	<0.005			
8/10/2017		0.00036 (J)	0.0031	0.0021
3/29/2018		<0.005	0.0034	0.0021
3/30/2018	<0.005			
6/14/2018	<0.005	<0.005	0.0031	0.0025
10/4/2018	<0.005	<0.005	0.0033	0.002
2/26/2019	<0.005			
2/27/2019			0.0035	
2/28/2019		<0.005		0.0027
4/2/2019		<0.005		
4/3/2019			0.0031	0.0019
4/4/2019	<0.005			
9/18/2019	<0.005	<0.005		
9/19/2019			0.0021 (J)	0.0026 (J)
2/5/2020				0.0033 (J)
2/7/2020	<0.005	<0.005	0.0048 (J)	
3/18/2020	<0.005			
3/19/2020			0.0037 (J)	0.0033 (J)
5/4/2020		<0.005		

Time Series



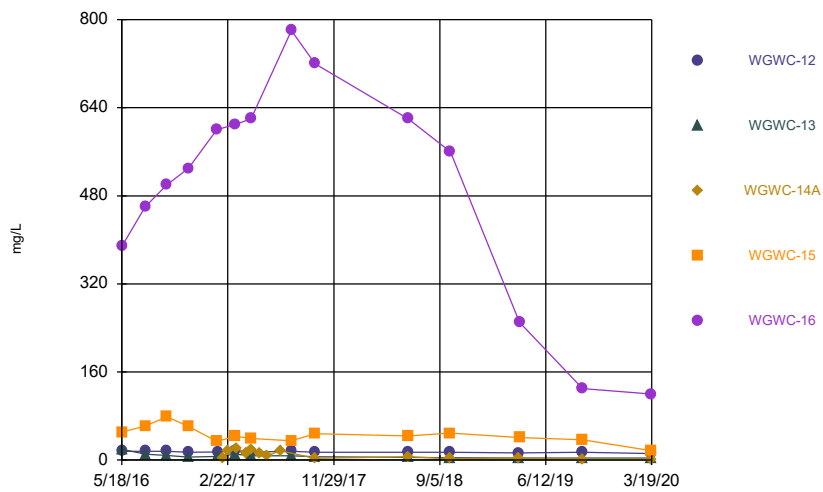
Constituent: Sulfate Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



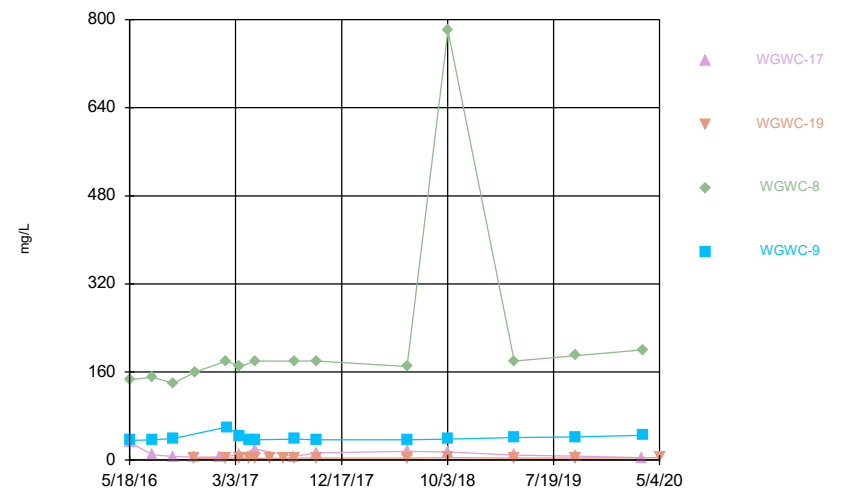
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Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Sulfate Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Sulfate Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<1	19.9	1.14		
5/18/2016				0.821 (J)	5.32
7/19/2016	<1	14	1.4		
7/20/2016				0.82 (J)	6.5
9/13/2016	<1	11	1.1	0.81 (J)	5.6
11/9/2016	<1	6.3	1.1		
11/10/2016				0.73 (J)	5.4
1/17/2017	<1		2.1		
1/18/2017				0.99 (J)	5.1
1/19/2017		7.4			
3/13/2017	<1		0.97 (J)		
3/14/2017		10		0.83 (J)	4.6
4/24/2017	<1		0.75 (J)		
4/25/2017		10		0.7 (J)	6.6
8/8/2017	<1	12	1.1	0.82 (J)	
8/9/2017					7.3
10/10/2017	<1		1.3		
10/11/2017		11		0.72 (J)	6.8
6/13/2018	<1	8.2			
6/14/2018			0.84 (J)	<1	6.9
9/24/2018			0.79 (J)		
9/27/2018	<1				
9/28/2018		7.6			
10/3/2018				0.73 (J)	7
4/1/2019	<1		1		
4/2/2019		11		1.1	8.1
9/16/2019	0.49 (J)				
9/17/2019		8	1.3		8.1
9/18/2019				0.78 (J)	
3/16/2020	0.42 (J)		1.3		
3/17/2020		8.5		1.2	12

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	0.955 (J)	8.88	0.368 (J)	2.84	
5/19/2016					1.83
7/19/2016	0.76 (J)	9	<1		
7/20/2016				2.8	1.6
9/13/2016		8.5	<1		
9/14/2016	3.4			2.8	1.5
11/9/2016		8.2			
11/10/2016			<1		
11/11/2016				2.6	1.4
1/18/2017		9.4	1.4		
1/19/2017	21				
1/27/2017					2.5
2/6/2017				2.7	
3/14/2017	1.4	2	<1		
3/15/2017				2.7	2.5
4/25/2017	0.89 (J)	8.2	<1		
4/26/2017				2.5	2.2
8/8/2017		8.5	<1		
8/9/2017	0.75 (J)				
8/10/2017				2.2	2.3
10/11/2017	<1	8.3	<1		
10/12/2017				1.9	1.9
6/13/2018	<1	8.3			
6/14/2018			<1	2	1.7
10/2/2018		8.3			
10/3/2018	<1		<1		
10/4/2018				1.9	1.6
4/2/2019	0.94 (J)	8.5	0.4 (J)		
4/3/2019					1.9
4/4/2019				2.2	
9/16/2019	2.2	8.9			
9/18/2019			<1		
9/19/2019				2.1	1.3
3/17/2020	4	12	0.86 (J)		
3/18/2020				2.1	1.6

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				50.7	388
5/19/2016	15.8	19.2			
7/19/2016				62	460
7/20/2016	16	11			
9/14/2016	16	8.6		79	500
11/10/2016		5.7		61	530
11/11/2016	14				
1/24/2017				34	600
1/27/2017	15	6.8			
2/8/2017			4.3		
2/23/2017			16		
3/14/2017				43	
3/15/2017	17	11			610
3/17/2017			22		
4/11/2017			13		
4/25/2017				39	620
4/26/2017	15	8.1	20		
5/17/2017			12		
6/7/2017			8.1		
7/11/2017			17		
8/9/2017		8.1		35	780
8/10/2017	16				
10/11/2017			3.4	48	720
10/12/2017	14	6.1			
6/14/2018	14	5	5.8	44	620
10/3/2018				49	
10/4/2018	14	4.3	2.8		560
4/3/2019	13	3.8	3.8		
4/4/2019				41	250
9/18/2019		3.9	1.7	37	130
9/19/2019	14				
3/18/2020	12			17	120
3/19/2020		4	1.5		

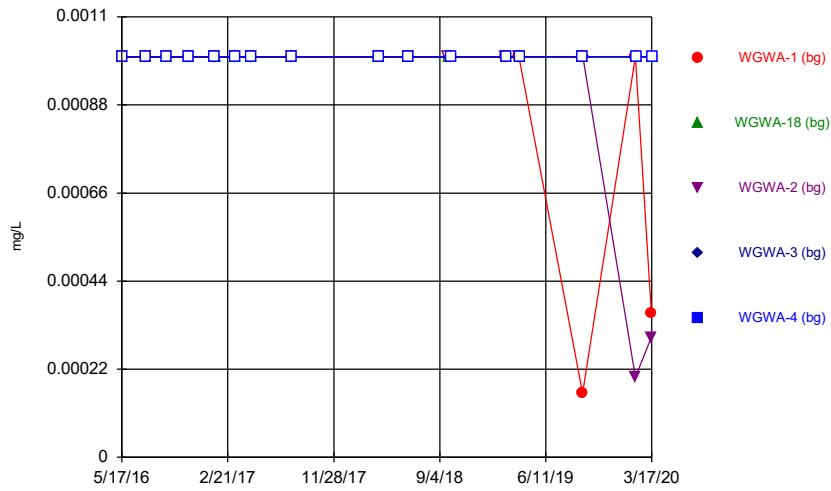
Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

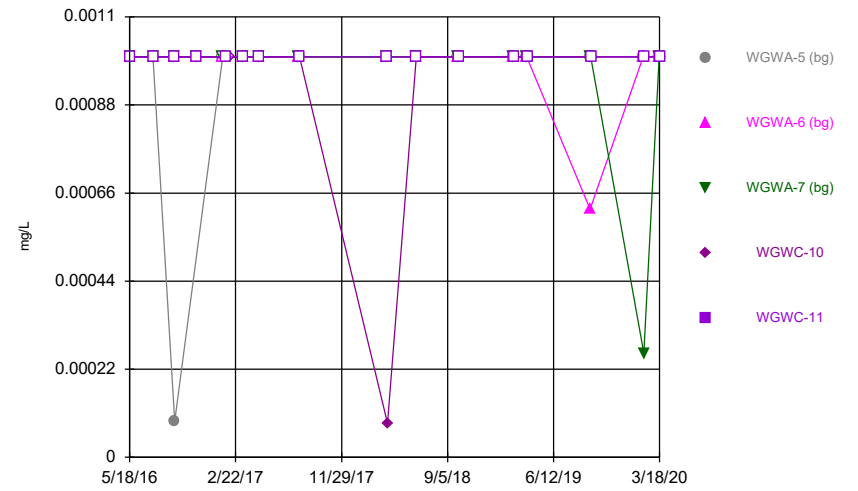
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	32.1			
5/19/2016			146	35.9
7/20/2016	9.7		150	37
9/14/2016	6.6			39
9/15/2016			140	
11/10/2016	5.2			
11/11/2016		3.4		
11/14/2016			160	
1/20/2017	5.3			
2/6/2017		3.7	180	
2/9/2017				60
3/14/2017	9.6			
3/15/2017		3.6	170	44
4/11/2017		3.2		36
4/25/2017	20			
4/26/2017		3.3	180	37
6/7/2017		3.8		
7/11/2017		3.3		
8/9/2017	6.5			
8/10/2017		3.7	180	38
10/11/2017	13			
10/12/2017		3.6	180	37
6/14/2018	16	3.5	170	37
10/4/2018	15	4.6	780	38
4/2/2019		3.8		
4/3/2019			180	41
4/4/2019	9.1			
9/18/2019	7.3	3.6		
9/19/2019			190	42
3/18/2020	4.2			
3/19/2020			200	45
5/4/2020		4.5		

Time Series



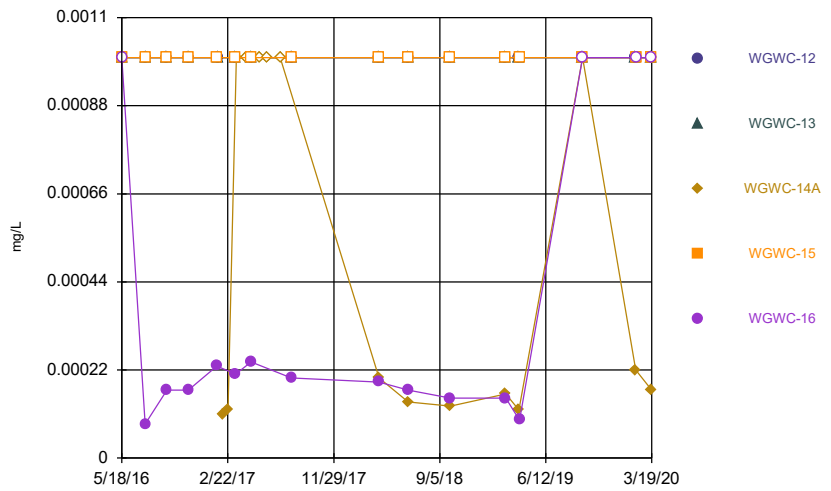
Constituent: Thallium Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



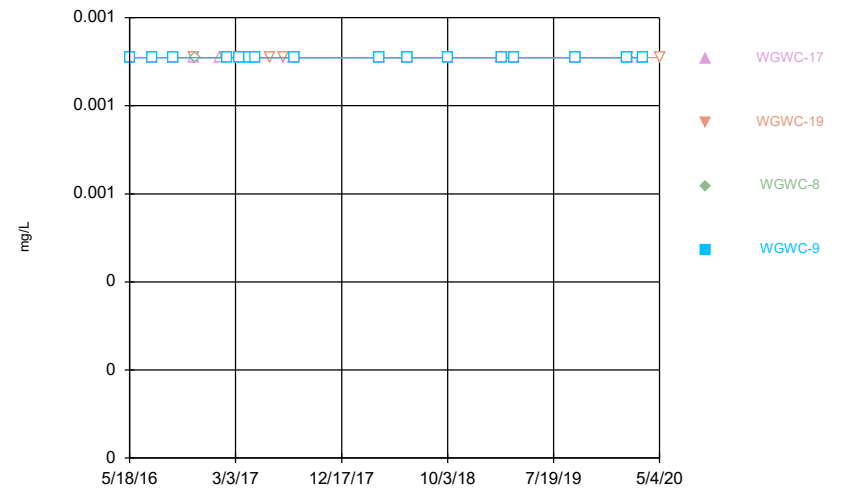
Constituent: Thallium Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Thallium Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Thallium Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.001	<0.001	<0.001		
5/18/2016				<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001
11/9/2016	<0.001	<0.001	<0.001		
11/10/2016				<0.001	<0.001
1/17/2017	<0.001		<0.001		
1/18/2017				<0.001	<0.001
1/19/2017		<0.001			
3/13/2017	<0.001		<0.001		
3/14/2017		<0.001		<0.001	<0.001
4/24/2017	<0.001		<0.001		
4/25/2017		<0.001		<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001	
8/9/2017					<0.001
3/27/2018	<0.001		<0.001		
3/28/2018		<0.001		<0.001	<0.001
6/13/2018	<0.001	<0.001			
6/14/2018			<0.001	<0.001	<0.001
9/24/2018			<0.001		
9/27/2018	<0.001				
9/28/2018		<0.001			
10/3/2018				<0.001	<0.001
2/25/2019	<0.001		<0.001		
2/26/2019		<0.001		<0.001	<0.001
4/1/2019	<0.001		<0.001		
4/2/2019		<0.001		<0.001	<0.001
9/16/2019	0.00016 (J)				
9/17/2019		<0.001	<0.001		<0.001
9/18/2019				<0.001	
2/3/2020	<0.001		0.0002 (J)		
2/4/2020				<0.001	<0.001
2/5/2020		<0.001			
3/16/2020	0.00036 (J)		0.0003 (J)		
3/17/2020		<0.001		<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.001	<0.001	<0.001	<0.001	
5/19/2016					<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016		<0.001	<0.001		
9/14/2016	9E-05 (J)			<0.001	<0.001
11/9/2016		<0.001			
11/10/2016			<0.001		
11/11/2016				<0.001	<0.001
1/18/2017		<0.001	<0.001		
1/19/2017	<0.001				
1/27/2017					<0.001
2/6/2017				<0.001	
3/14/2017	<0.001	<0.001	<0.001		
3/15/2017				<0.001	<0.001
4/25/2017	<0.001	<0.001	<0.001		
4/26/2017				<0.001	<0.001
8/8/2017		<0.001	<0.001		
8/9/2017	<0.001				
8/10/2017				<0.001	<0.001
3/28/2018	<0.001	<0.001	<0.001		
3/29/2018					<0.001
3/30/2018				8.5E-05 (J)	
6/13/2018	<0.001	<0.001			
6/14/2018			<0.001	<0.001	<0.001
10/2/2018		<0.001			
10/3/2018	<0.001		<0.001		
10/4/2018				<0.001	<0.001
2/26/2019	<0.001	<0.001	<0.001		
2/27/2019				<0.001	<0.001
4/2/2019	<0.001	<0.001	<0.001		
4/3/2019					<0.001
4/4/2019				<0.001	
9/16/2019	<0.001	0.00062 (J)			
9/18/2019			<0.001		
9/19/2019				<0.001	<0.001
2/4/2020	<0.001	<0.001			
2/5/2020			0.00026 (J)	<0.001	<0.001
3/17/2020	<0.001	<0.001	<0.001		
3/18/2020				<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.001	<0.001
5/19/2016	<0.001	<0.001			
7/19/2016				<0.001	8.5E-05 (J)
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	<0.001		<0.001	0.00017 (J)
11/10/2016		<0.001		<0.001	0.00017 (J)
11/11/2016	<0.001				
1/24/2017				<0.001	0.00023 (J)
1/27/2017	<0.001	<0.001			
2/8/2017			0.00011 (J)		
2/23/2017			0.00012 (J)		
3/14/2017				<0.001	
3/15/2017	<0.001	<0.001			0.00021 (J)
3/17/2017			<0.001		
4/11/2017			<0.001		
4/25/2017				<0.001	0.00024 (J)
4/26/2017	<0.001	<0.001	<0.001		
5/17/2017			<0.001		
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017		<0.001		<0.001	0.0002 (J)
8/10/2017	<0.001				
3/29/2018	<0.001	<0.001	0.0002 (J)		0.00019 (J)
3/30/2018				<0.001	
6/14/2018	<0.001	<0.001	0.00014 (J)	<0.001	0.00017 (J)
10/3/2018				<0.001	
10/4/2018	<0.001	<0.001	0.00013 (J)		0.00015 (J)
2/27/2019	<0.001	<0.001	0.00016 (J)	<0.001	0.00015 (J)
4/3/2019	<0.001	<0.001	0.00012 (J)		
4/4/2019				<0.001	9.5E-05 (J)
9/18/2019		<0.001	<0.001	<0.001	<0.001
9/19/2019	<0.001				
2/5/2020	<0.001	<0.001	0.00022 (J)		
2/7/2020				<0.001	<0.001
3/18/2020	<0.001			<0.001	<0.001
3/19/2020		<0.001	0.00017 (J)		

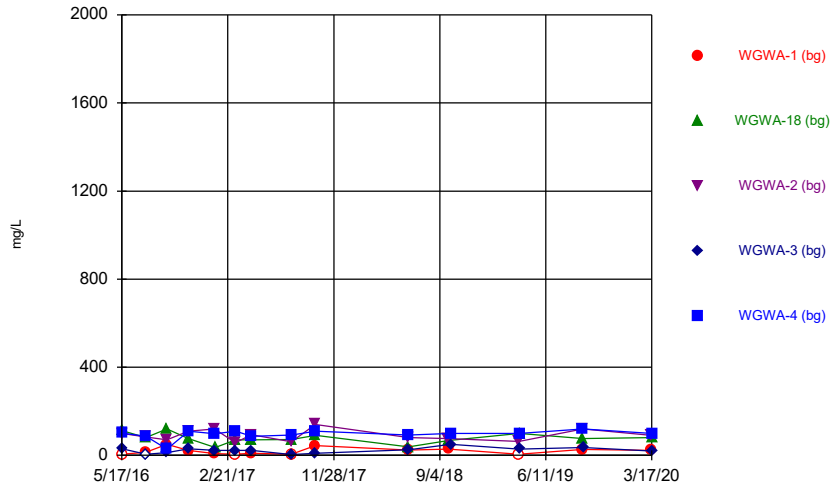
Time Series

Constituent: Thallium (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

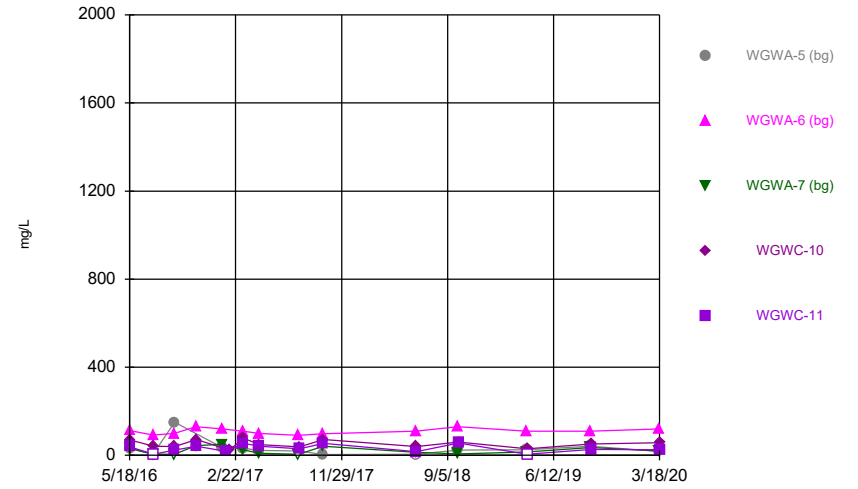
	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001			
5/19/2016			<0.001	<0.001
7/20/2016	<0.001		<0.001	<0.001
9/14/2016	<0.001			<0.001
9/15/2016			<0.001	
11/10/2016	<0.001			
11/11/2016		<0.001		
11/14/2016			<0.001	
1/20/2017	<0.001			
2/6/2017		<0.001	<0.001	
2/9/2017				<0.001
3/14/2017	<0.001			
3/15/2017		<0.001	<0.001	<0.001
4/11/2017		<0.001		<0.001
4/25/2017	<0.001			
4/26/2017		<0.001	<0.001	<0.001
6/7/2017		<0.001		
7/11/2017		<0.001		
8/9/2017	<0.001			
8/10/2017		<0.001	<0.001	<0.001
3/29/2018		<0.001	<0.001	<0.001
3/30/2018	<0.001			
6/14/2018	<0.001	<0.001	<0.001	<0.001
10/4/2018	<0.001	<0.001	<0.001	<0.001
2/26/2019	<0.001			
2/27/2019			<0.001	
2/28/2019		<0.001		<0.001
4/2/2019		<0.001		
4/3/2019			<0.001	<0.001
4/4/2019	<0.001			
9/18/2019	<0.001	<0.001		
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020	<0.001	<0.001	<0.001	
3/18/2020	<0.001			
3/19/2020			<0.001	<0.001
5/4/2020		<0.001		

Time Series



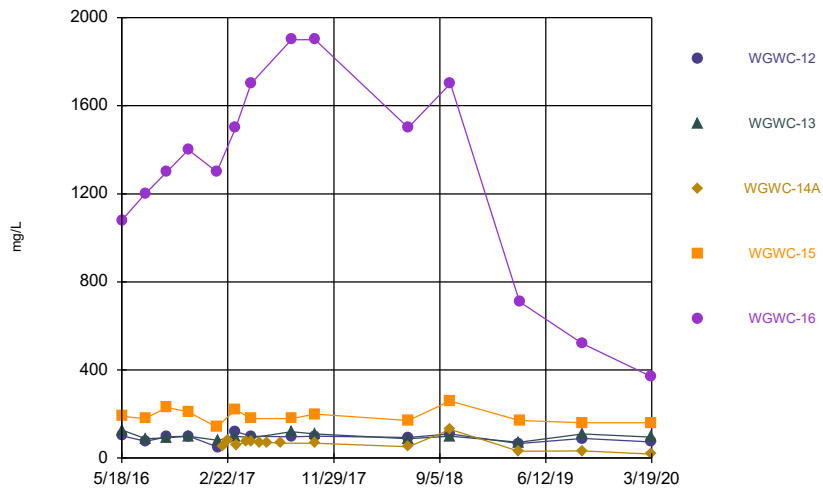
Constituent: Total Dissolved Solids Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



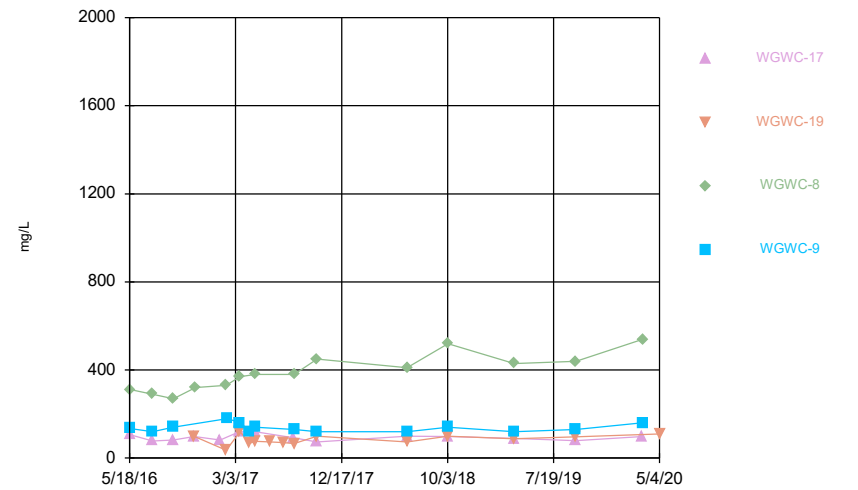
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Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series



Constituent: Total Dissolved Solids Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<10	112	100		
5/18/2016				29	101
7/19/2016	14	80	84		
7/20/2016				<10	86
9/13/2016	50	120	70	12	28
11/9/2016	22	76	110		
11/10/2016				30	110
1/17/2017	8		120		
1/18/2017				22	98
1/19/2017		36			
3/13/2017	<10		58		
3/14/2017		70		22	110
4/24/2017	10		94		
4/25/2017		70		22	86
8/8/2017	<10	72	62	4 (J)	
8/9/2017					92
10/10/2017	44		140		
10/11/2017		90		10	110
6/13/2018	24	38			
6/14/2018			80	26	92
9/24/2018			76		
9/27/2018	28				
9/28/2018		68			
10/3/2018				50	100
4/1/2019	<10		63		
4/2/2019		100		28	100
9/16/2019	27				
9/17/2019		76	120		120
9/18/2019				36	
3/16/2020	23		90		
3/17/2020		81		20	100

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	33	113	31	70	
5/19/2016					39
7/19/2016	<10	92	<10		
7/20/2016				42	<10
9/13/2016		100	<10		
9/14/2016	150			40	24
11/9/2016		130			
11/10/2016			44		
11/11/2016				72	42
1/18/2017		120	50		
1/19/2017	34				
1/27/2017					18
2/6/2017				24	
3/14/2017	32	110	26		
3/15/2017				78	54
4/25/2017	22	100	10		
4/26/2017				48	42
8/8/2017		90	<10		
8/9/2017	20				
8/10/2017				38	30
10/11/2017	4 (J)	98	42		
10/12/2017				72	54
6/13/2018	<10	110			
6/14/2018			14	40	16
10/2/2018		130			
10/3/2018	24		6		
10/4/2018				60	56
4/2/2019	25	110	15		
4/3/2019					<10
4/4/2019				30	
9/16/2019	41	110			
9/18/2019			35		
9/19/2019				52	27
3/17/2020	18	120	19		
3/18/2020				58	26

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 7/22/2020 12:04 PM View: All Wells and Constituents

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				190	1080
5/19/2016	101	127			
7/19/2016				180	1200
7/20/2016	76	88			
9/14/2016	96	92		230	1300
11/10/2016		100		210	1400
11/11/2016	100				
1/24/2017				140	1300
1/27/2017	50	80			
2/8/2017			54		
2/23/2017			78		
3/14/2017				220	
3/15/2017	120	100			1500
3/17/2017			56		
4/11/2017			76		
4/25/2017				180	1700
4/26/2017	100	92	76		
5/17/2017			68		
6/7/2017			72		
7/11/2017			68		
8/9/2017		120		180	1900
8/10/2017	96				
10/11/2017			68	200	1900
10/12/2017	100	110			
6/14/2018	94	88	52	170	1500
10/3/2018				260	
10/4/2018	110	100	130		1700
4/3/2019	66	72	31		
4/4/2019				170	710
9/18/2019		110	33	160	520
9/19/2019	89				
3/18/2020	73			160	370
3/19/2020		95	18		

Time Series

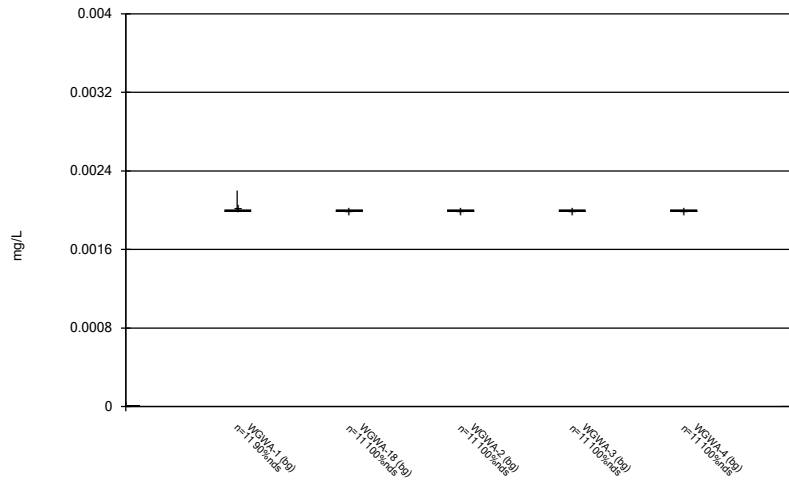
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Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	107			
5/19/2016			311	134
7/20/2016	78		290	120
9/14/2016	82			140
9/15/2016			270	
11/10/2016	98			
11/11/2016		98		
11/14/2016			320	
1/20/2017	82			
2/6/2017		36	330	
2/9/2017				180
3/14/2017	120			
3/15/2017		120	370	160
4/11/2017		68		120
4/25/2017	120			
4/26/2017		76	380	140
6/7/2017		74		
7/11/2017		70		
8/9/2017	92			
8/10/2017		66	380	130
10/11/2017	74			
10/12/2017		100	450	120
6/14/2018	100	74	410	120
10/4/2018	98	100	520	140
4/2/2019		88		
4/3/2019			430	120
4/4/2019	89			
9/18/2019	79	96		
9/19/2019			440	130
3/18/2020	98			
3/19/2020			540	160
5/4/2020		110		

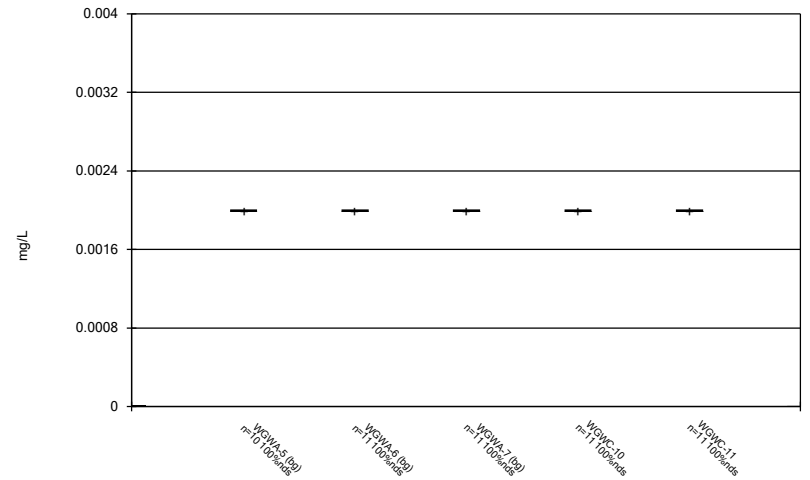
FIGURE B.

Box & Whiskers Plot



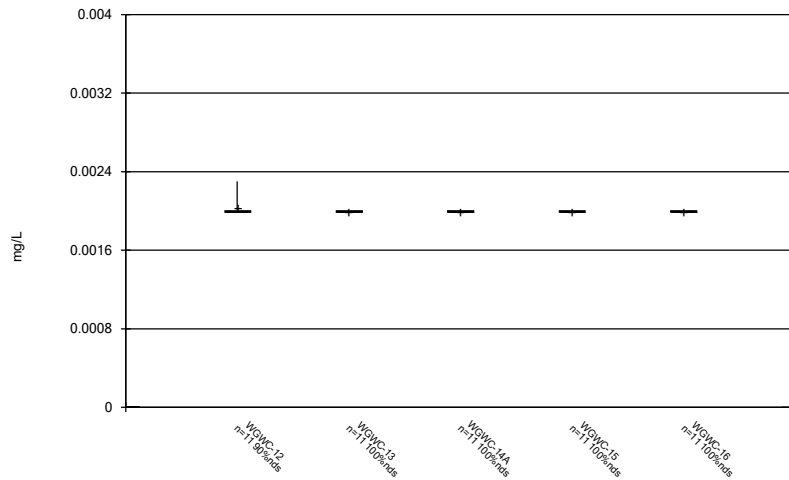
Constituent: Antimony Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



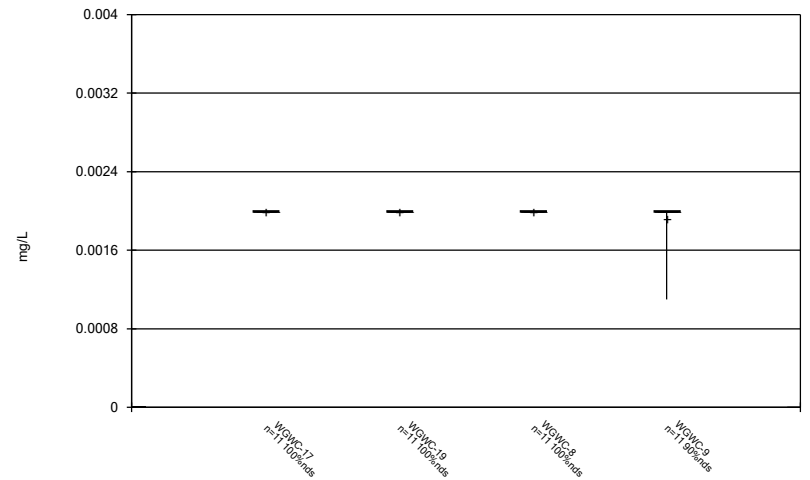
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



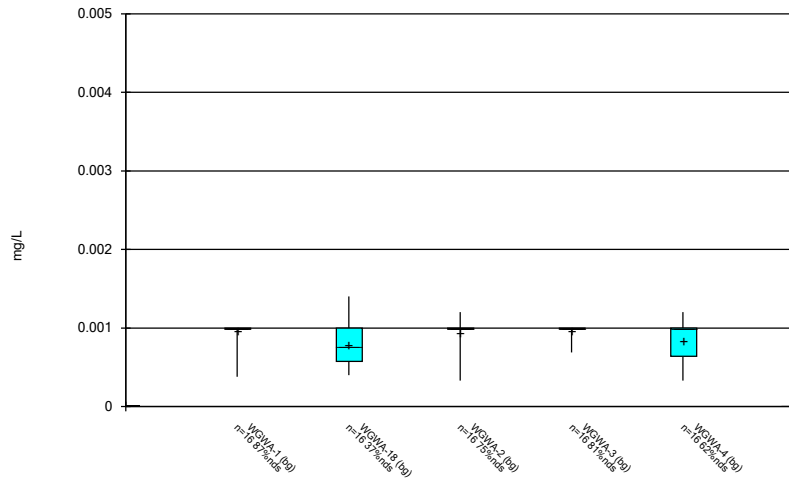
Constituent: Antimony Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



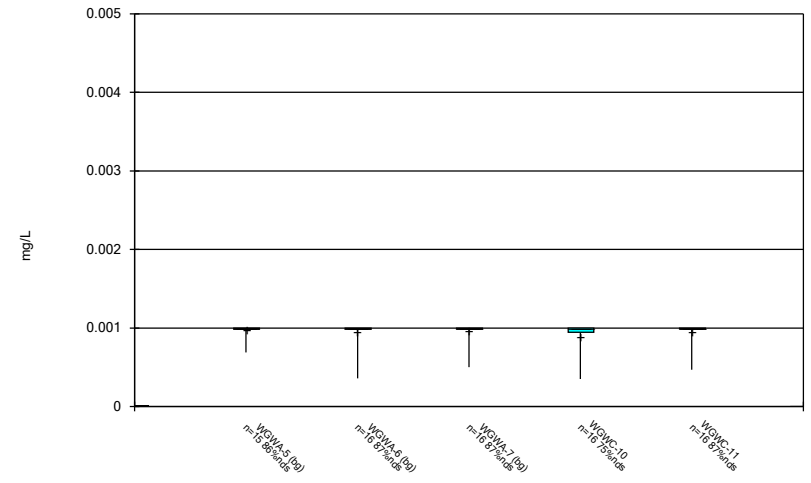
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



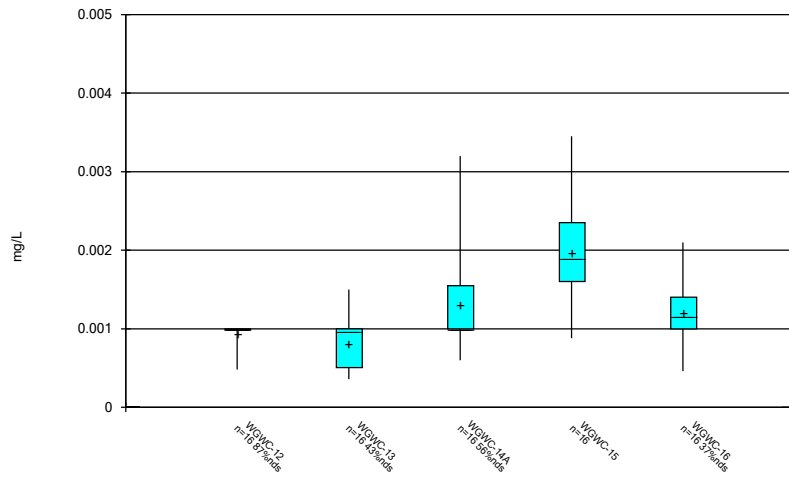
Constituent: Arsenic Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



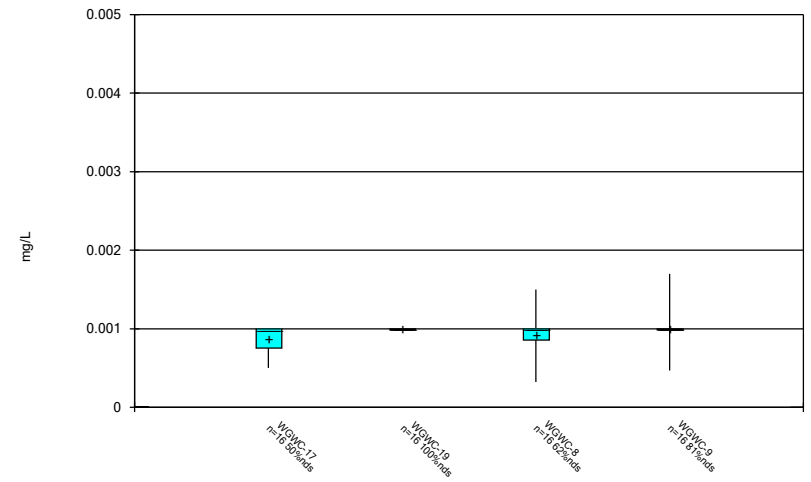
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Box & Whiskers Plot



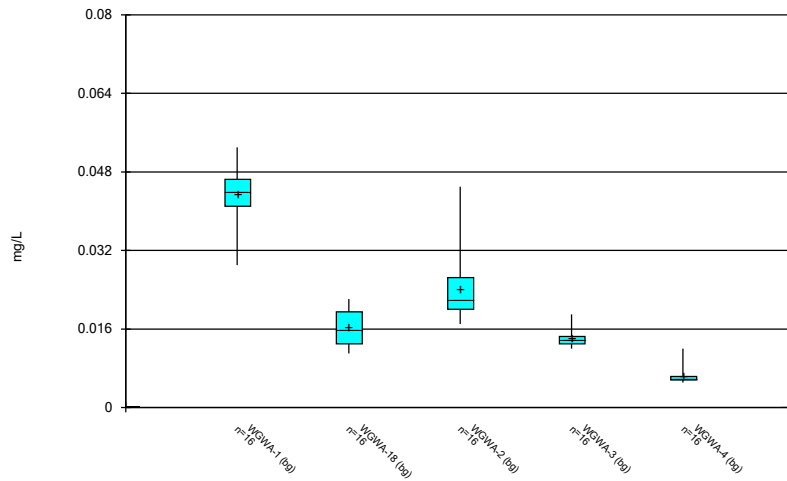
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



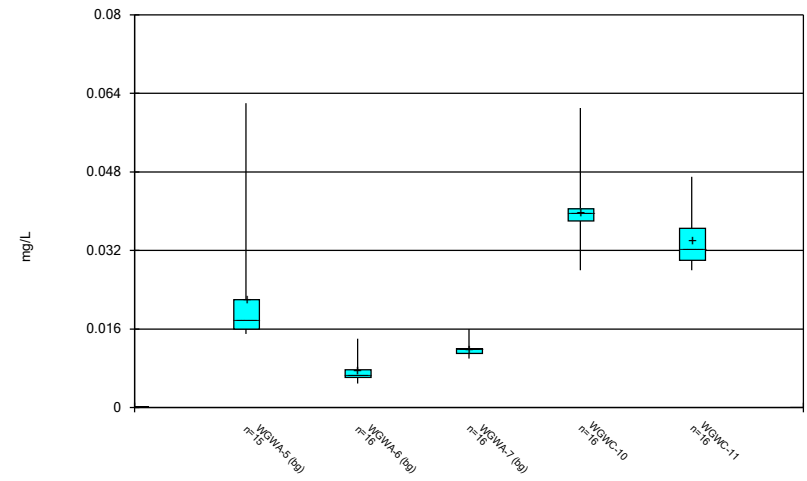
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



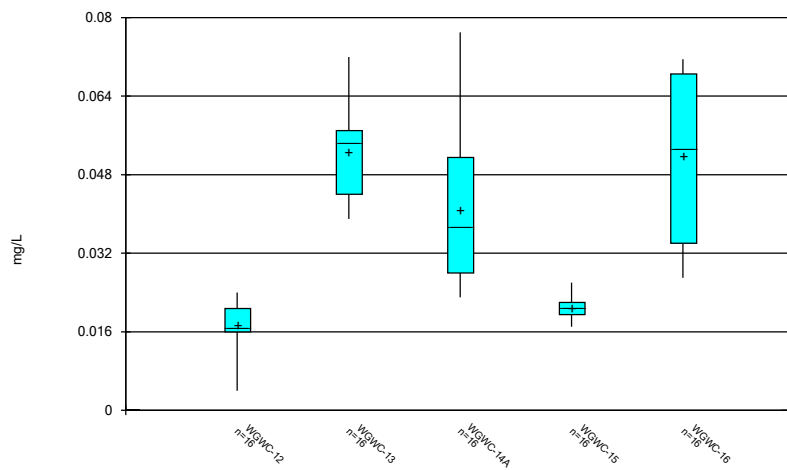
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



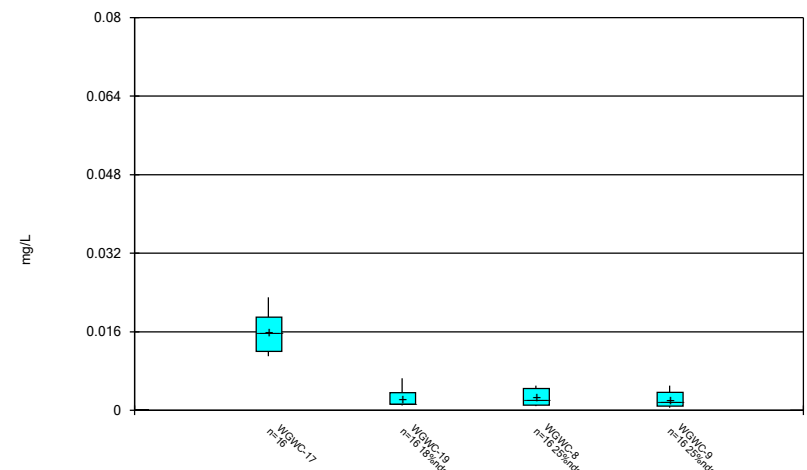
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



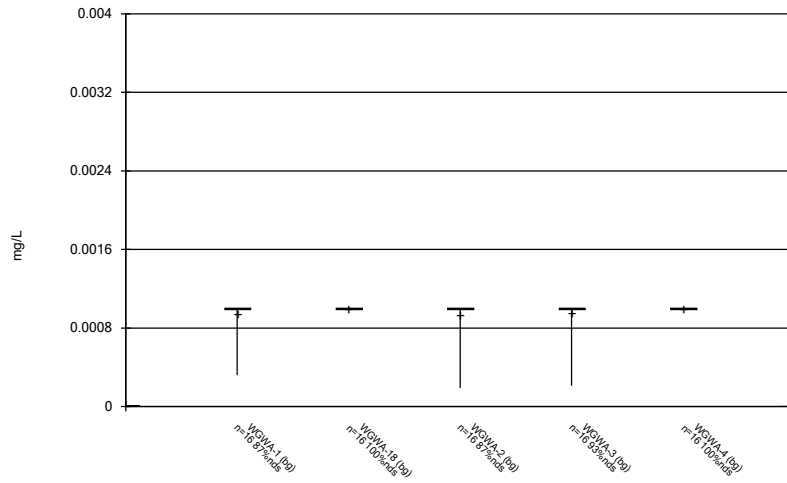
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



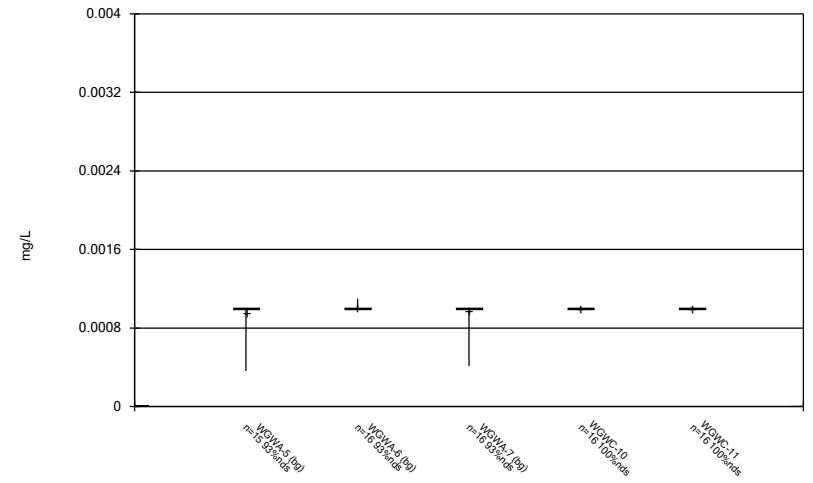
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



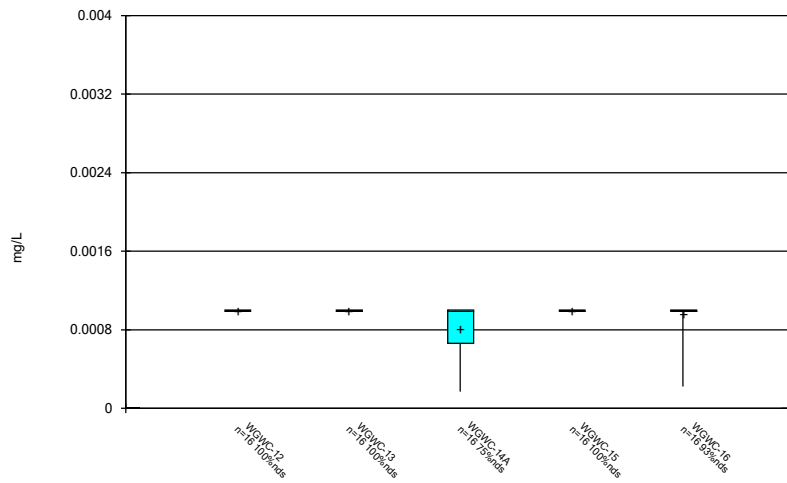
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



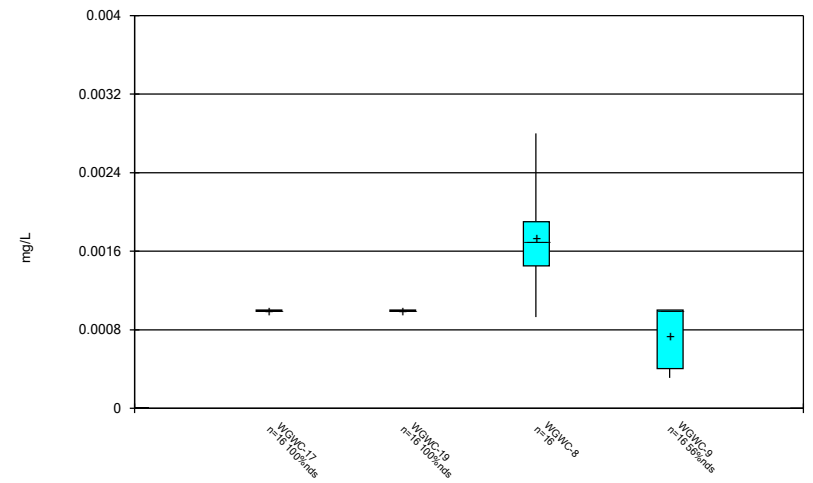
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



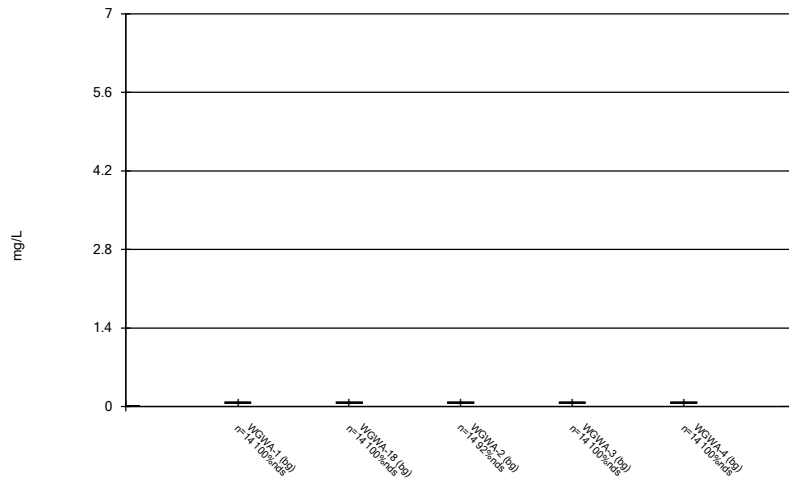
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



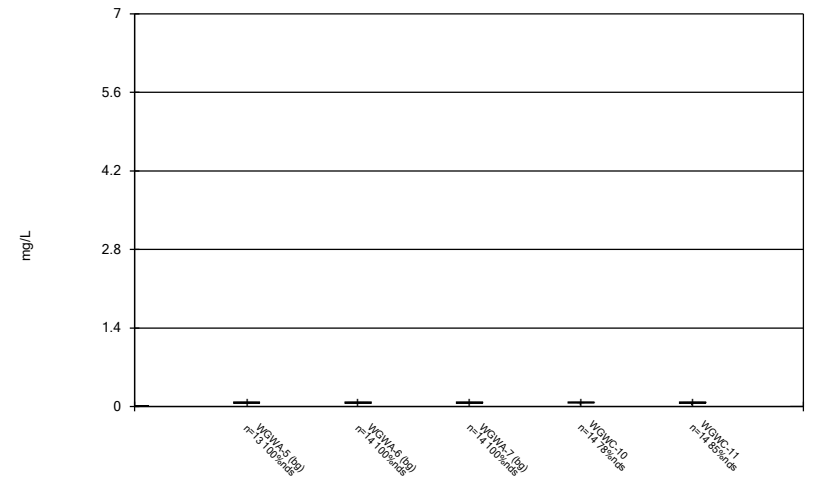
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



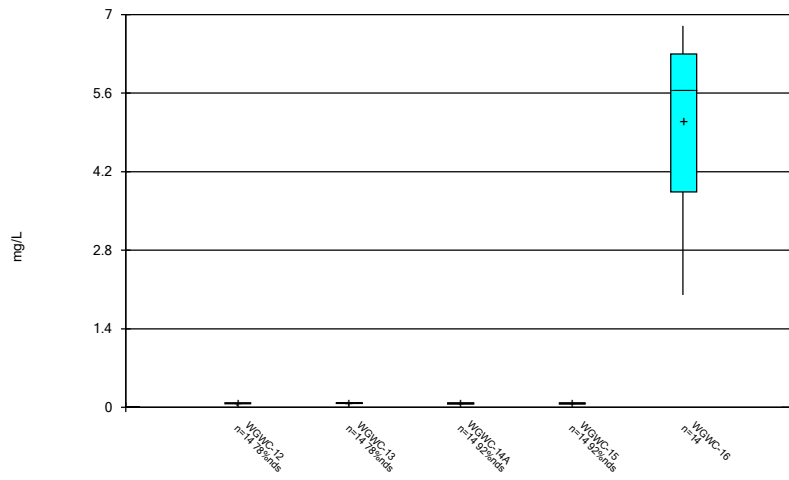
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



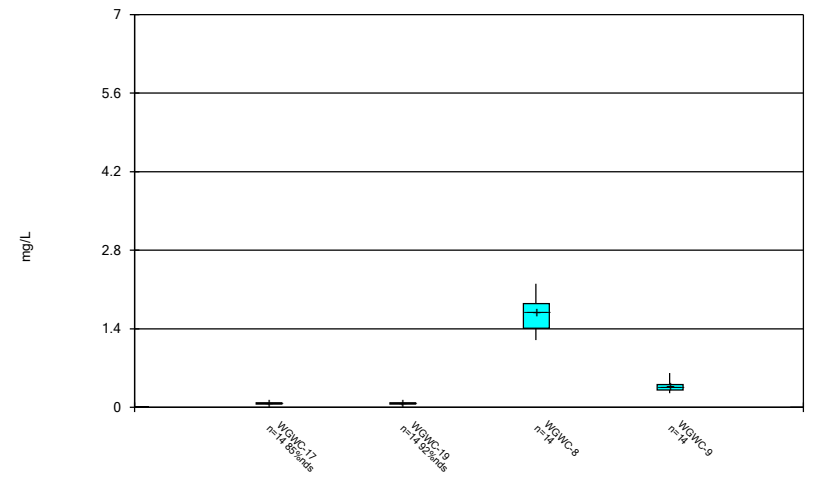
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



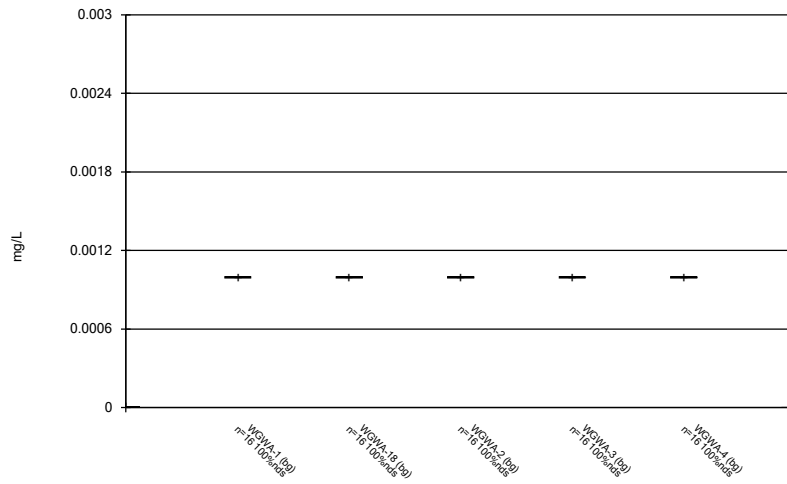
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



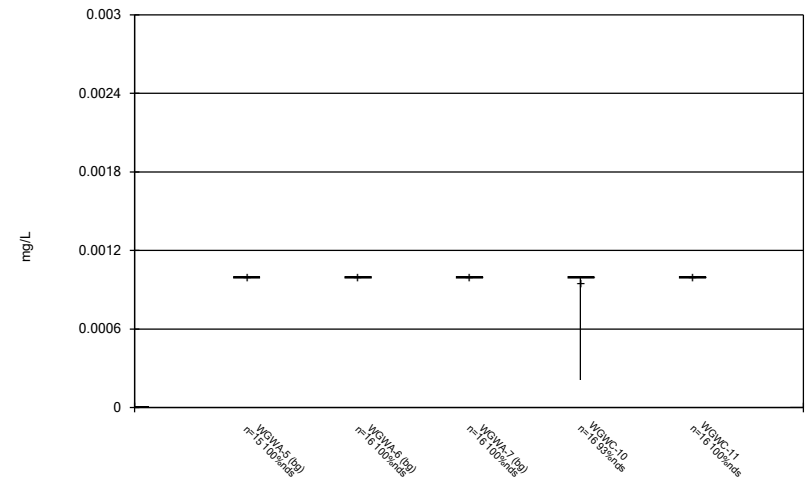
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



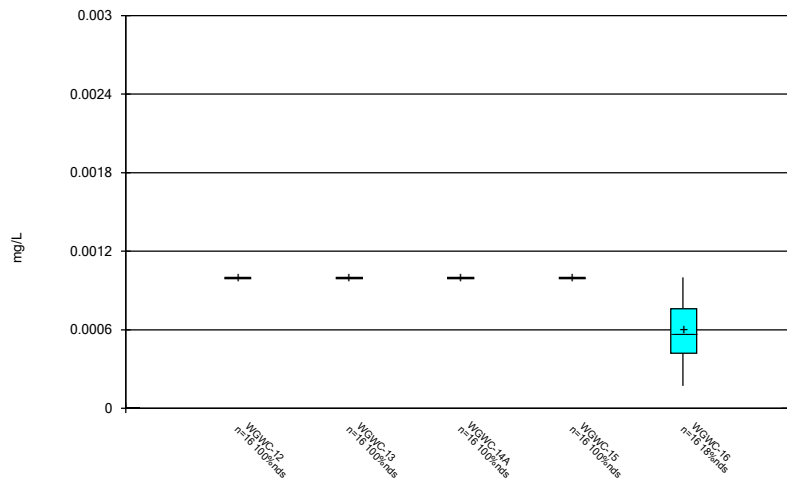
Constituent: Cadmium Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



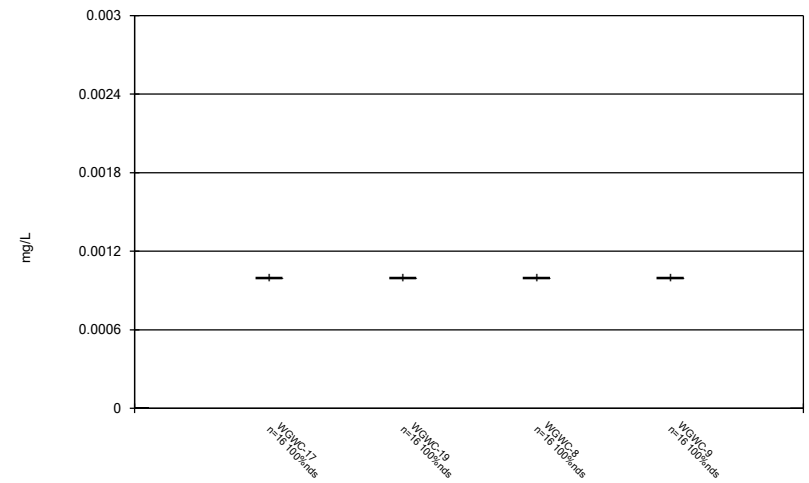
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



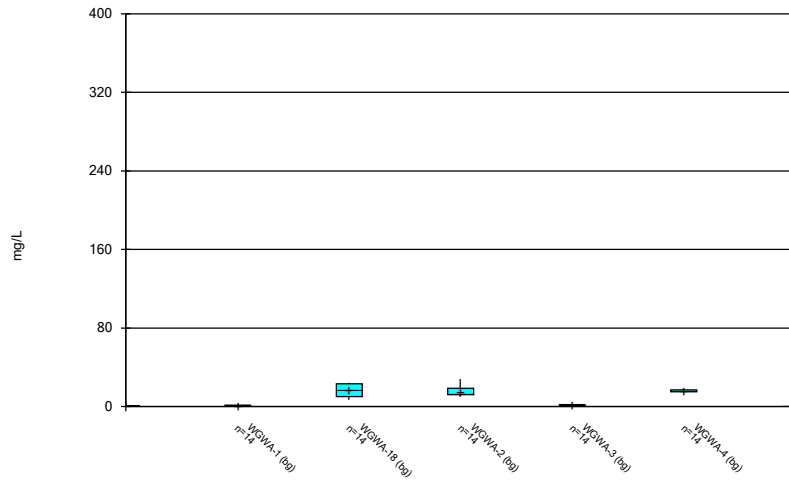
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



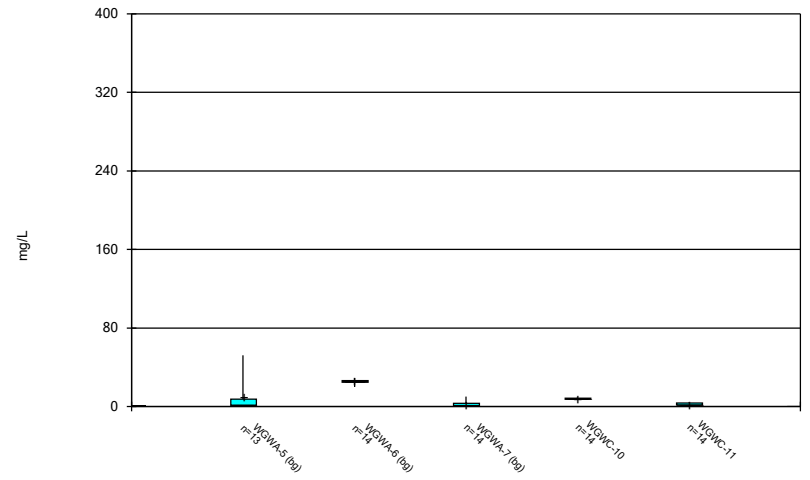
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



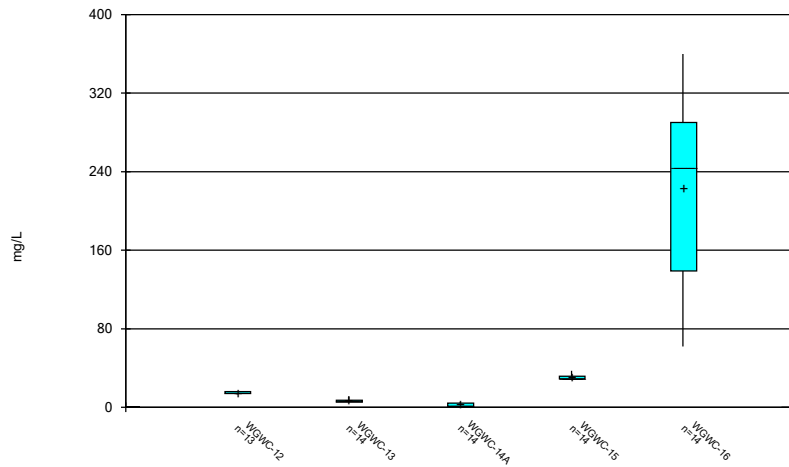
Constituent: Calcium Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



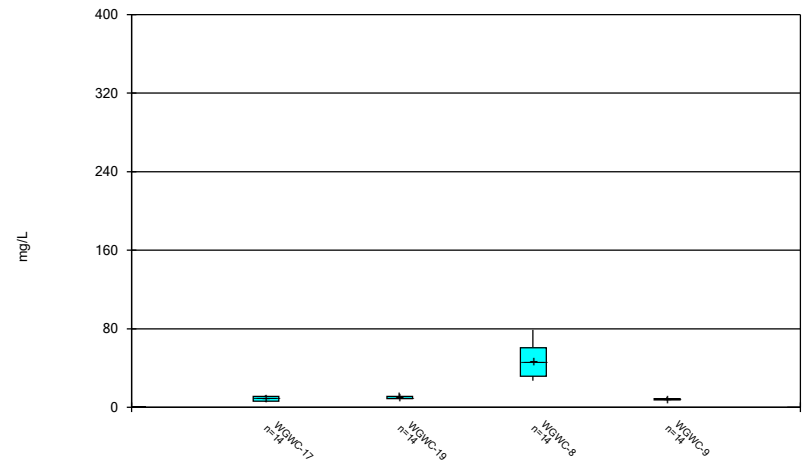
Constituent: Calcium Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



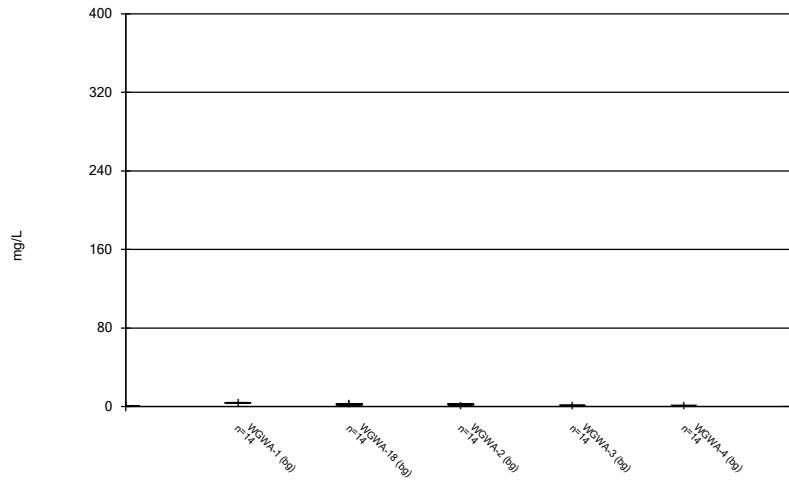
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



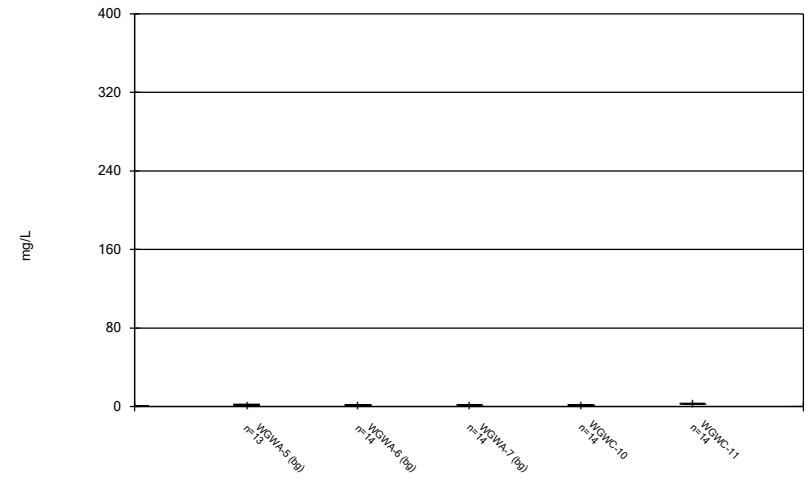
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



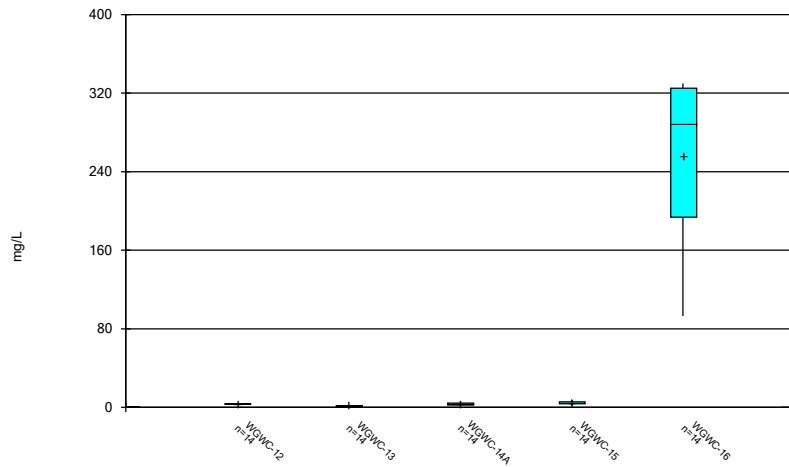
Constituent: Chloride Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



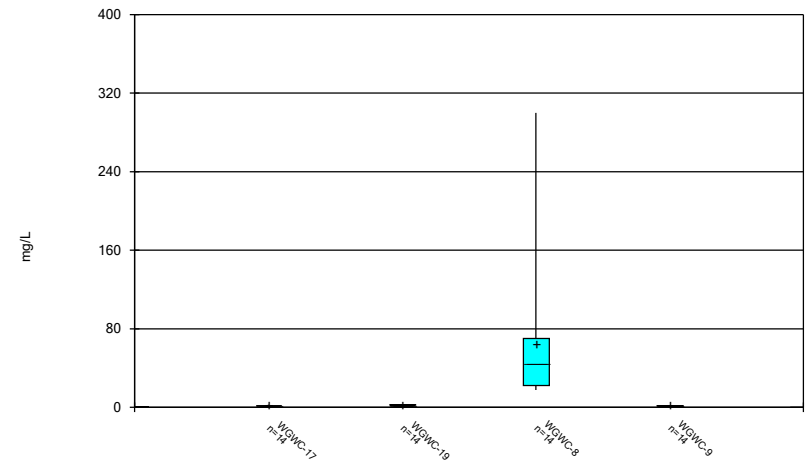
Constituent: Chloride Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



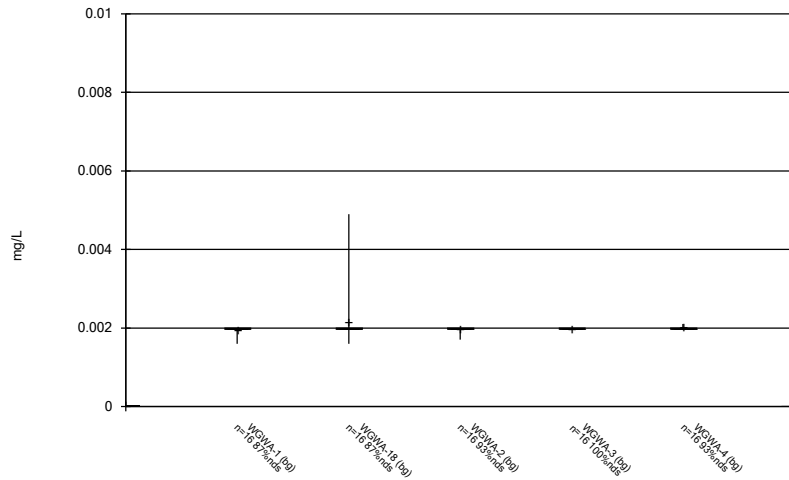
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



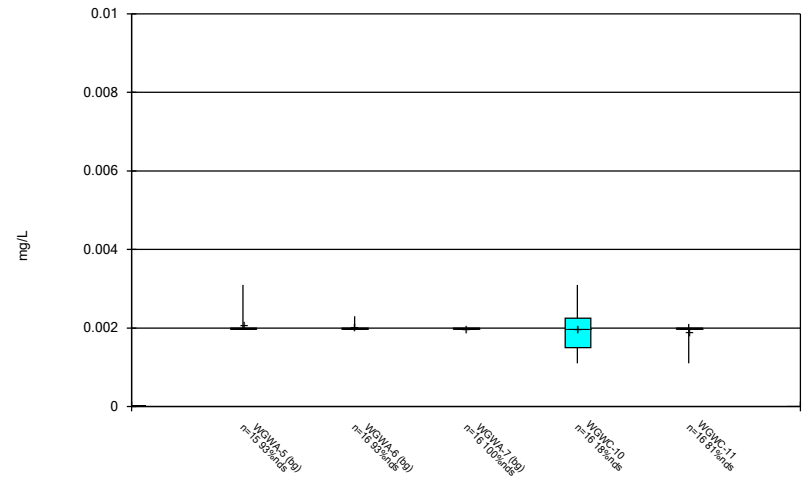
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



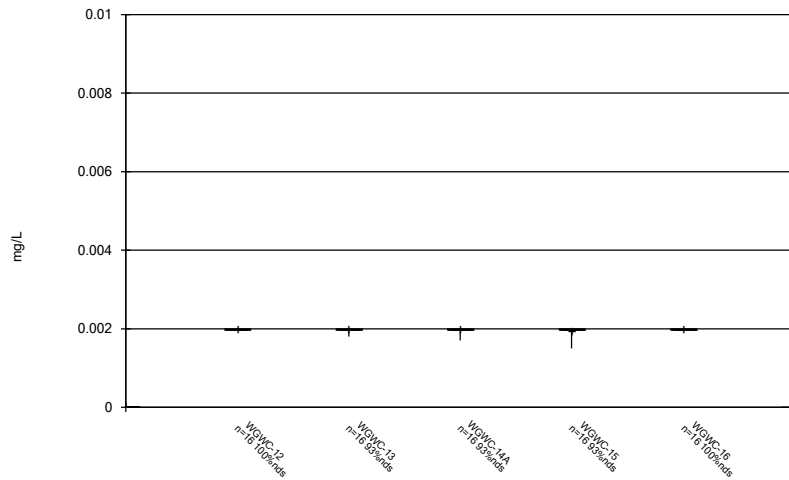
Constituent: Chromium Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



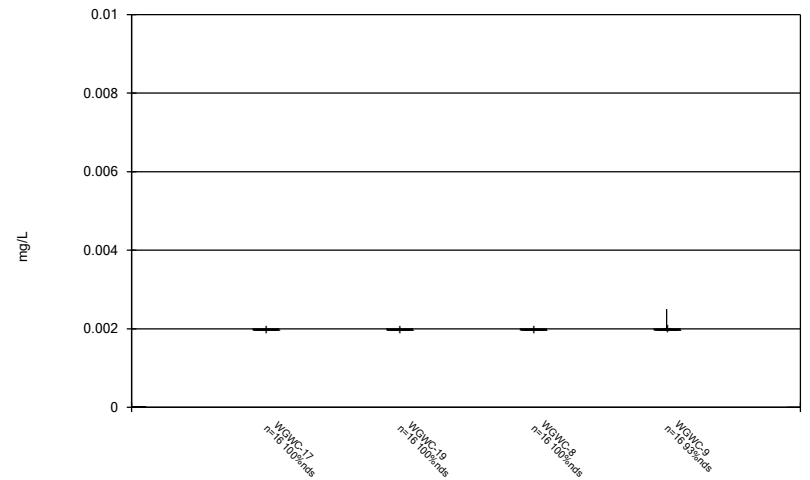
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



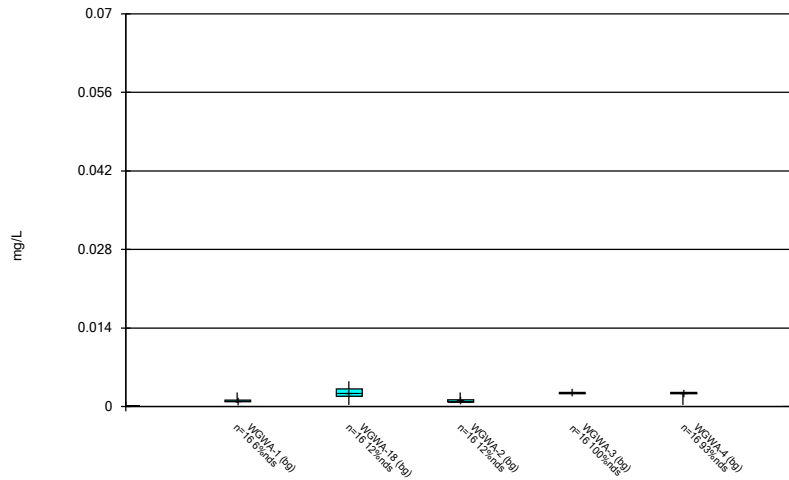
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



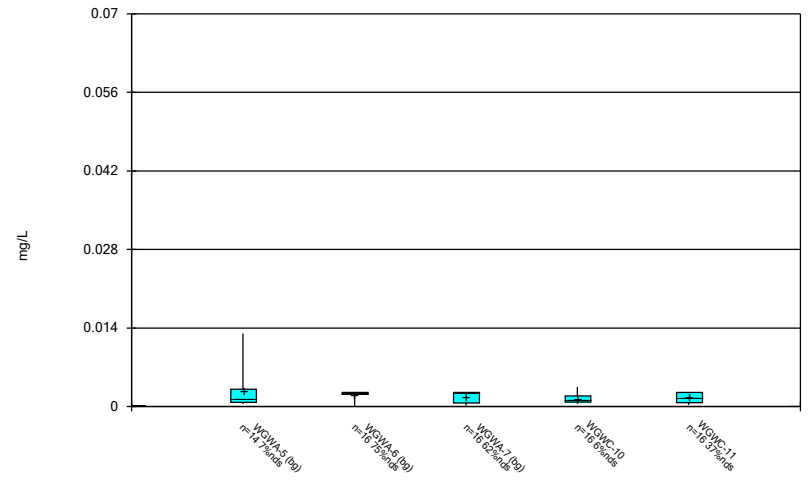
Constituent: Chromium Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



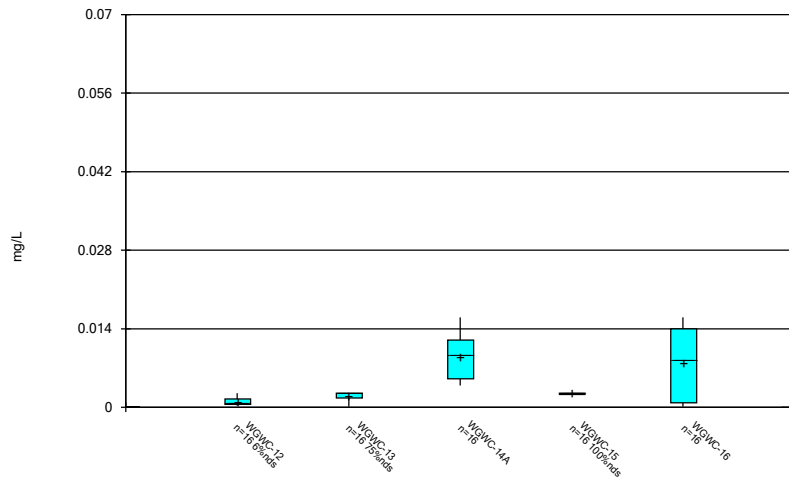
Constituent: Cobalt Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



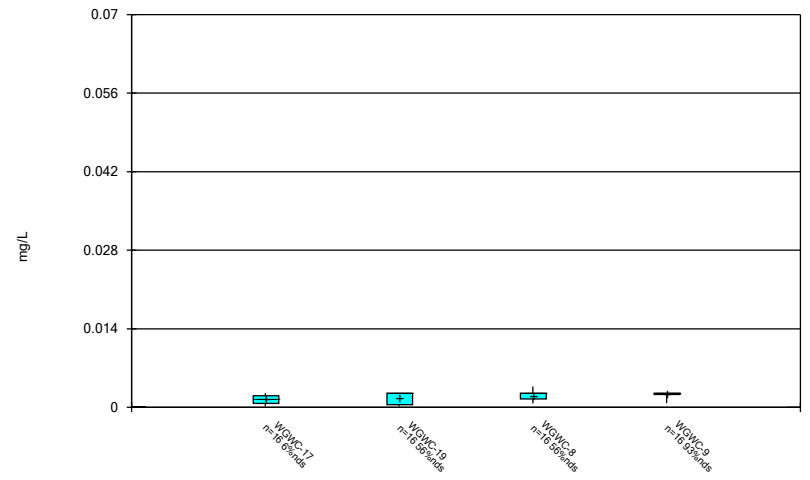
Constituent: Cobalt Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



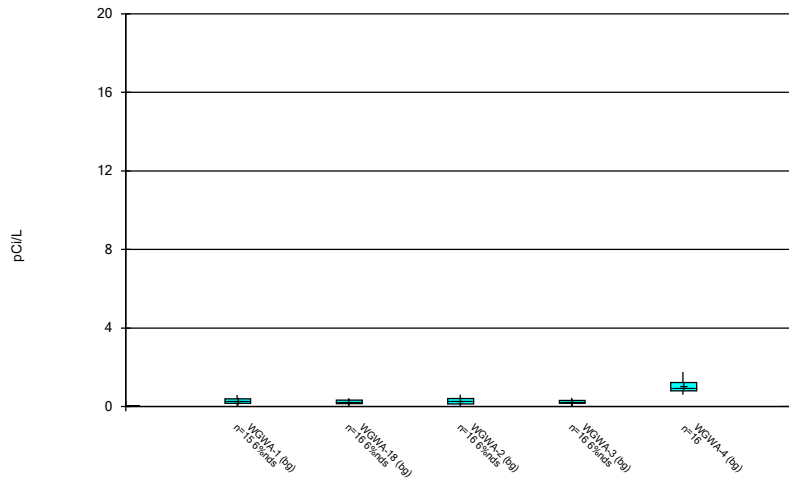
Constituent: Cobalt Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



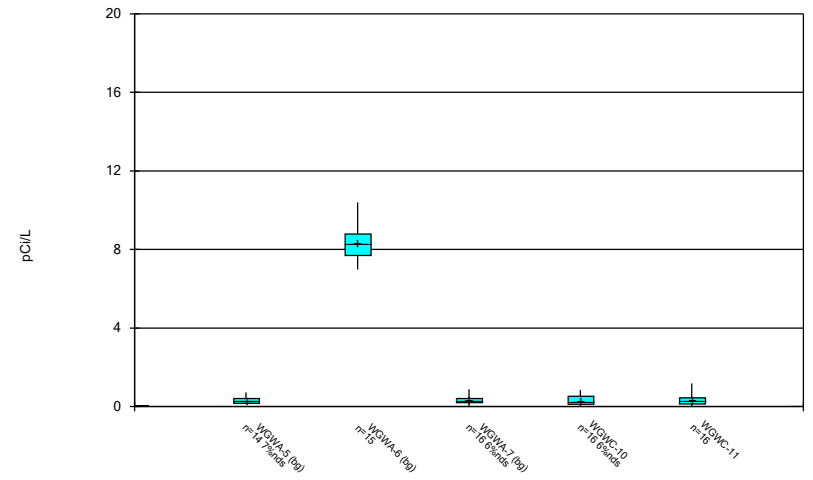
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



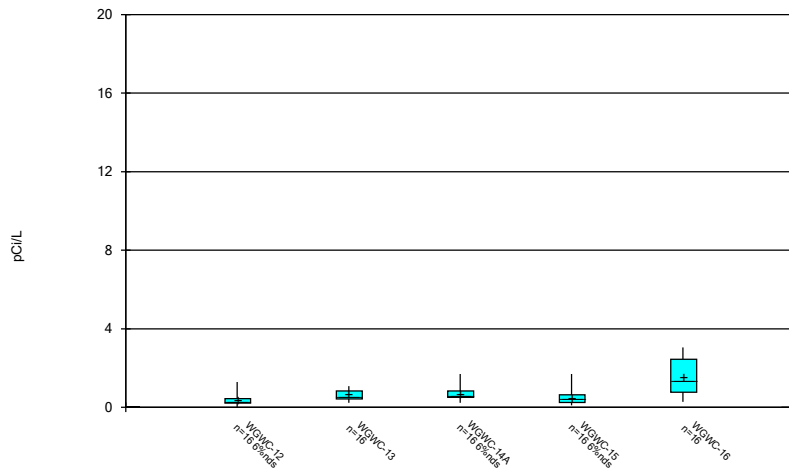
Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 12:05 PM View: All Wells and Constitu
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



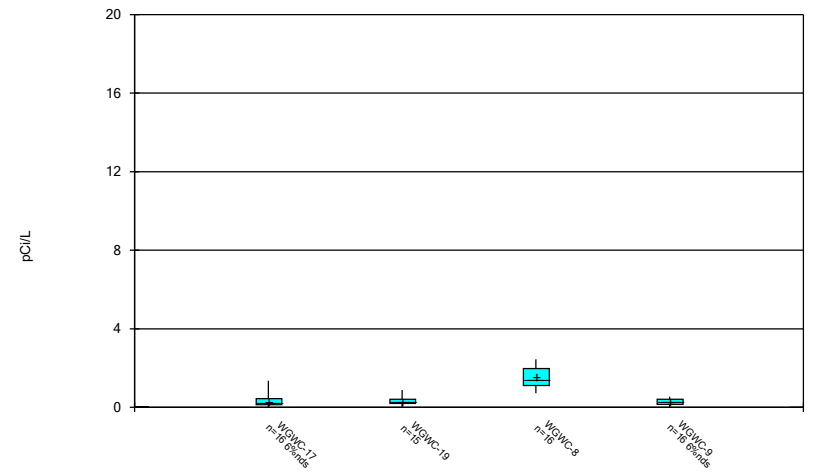
Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 12:05 PM View: All Wells and Constitu
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



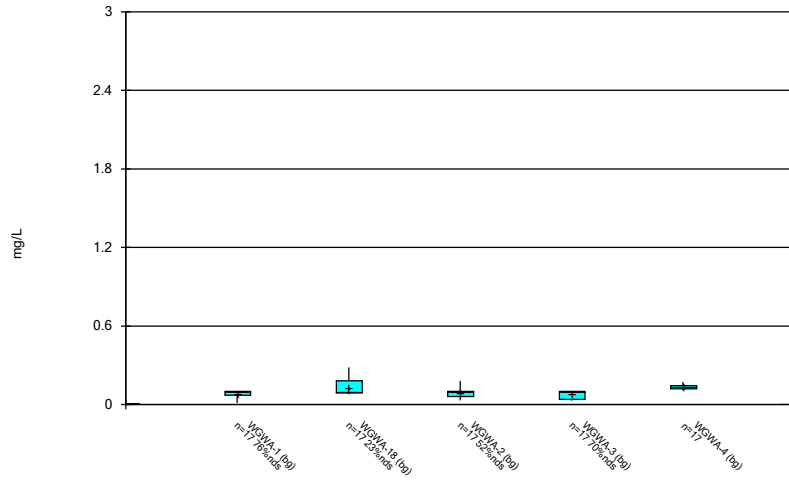
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



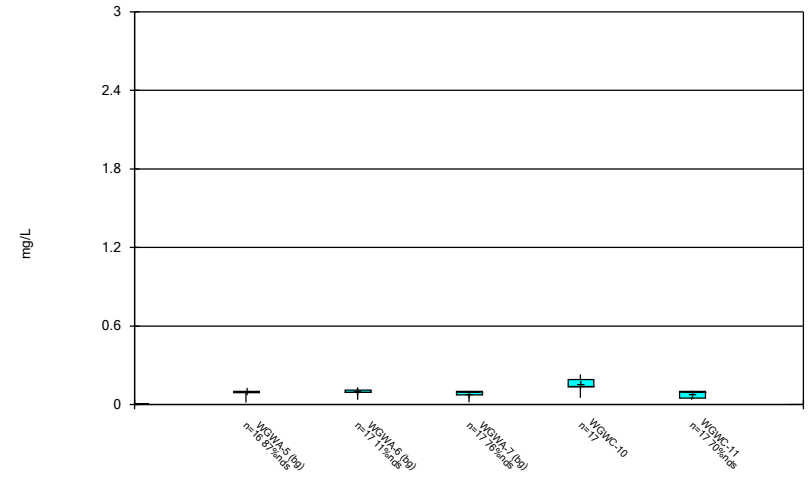
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



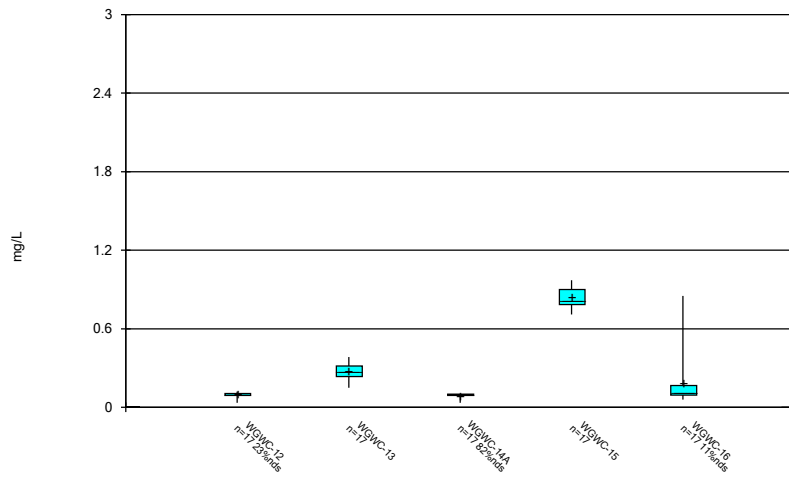
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Box & Whiskers Plot



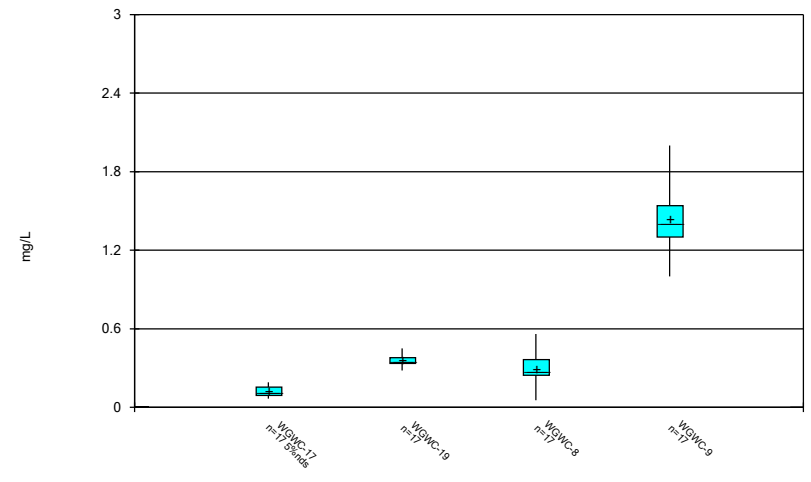
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Box & Whiskers Plot



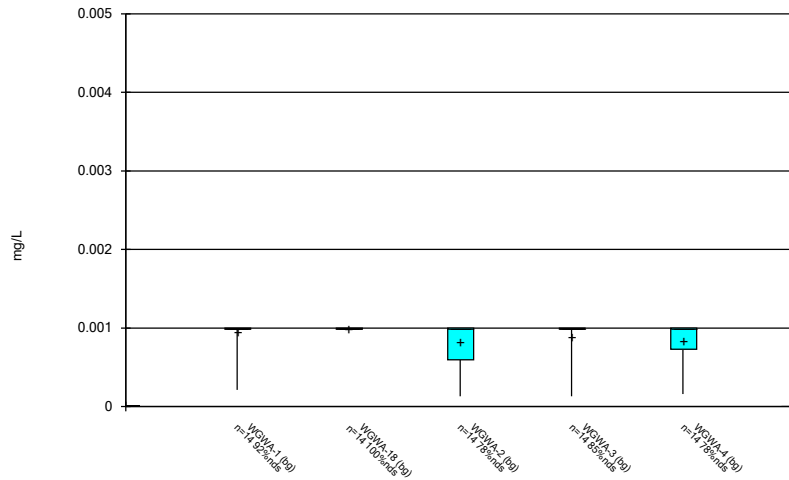
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



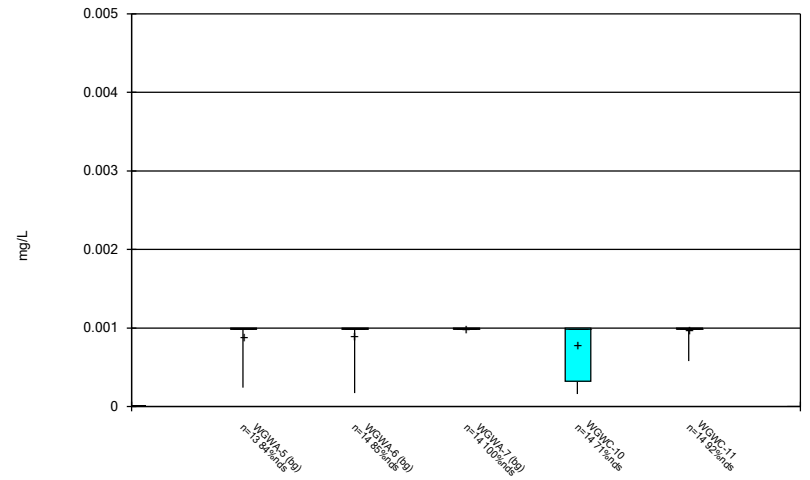
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



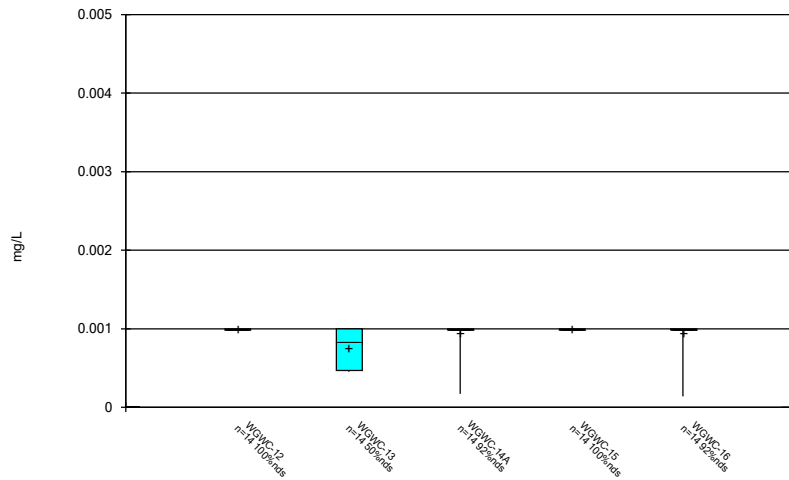
Constituent: Lead Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



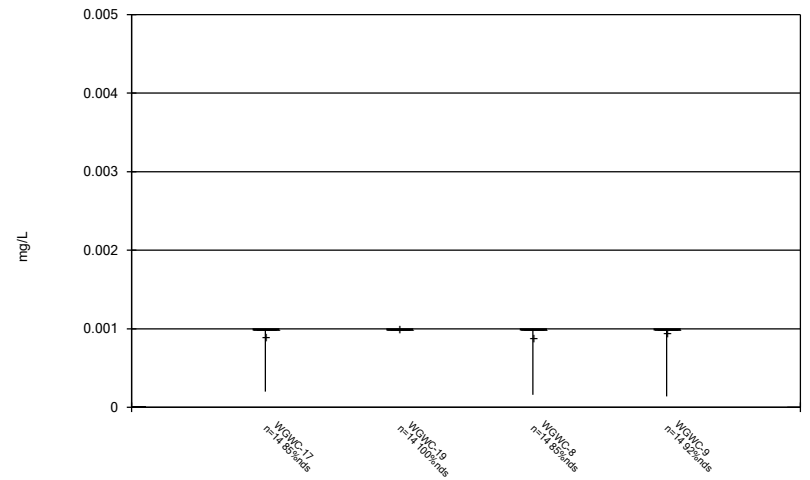
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



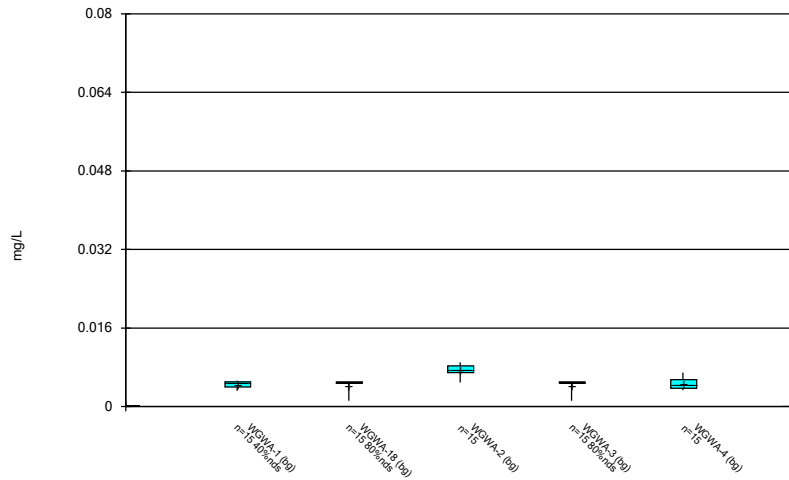
Constituent: Lead Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



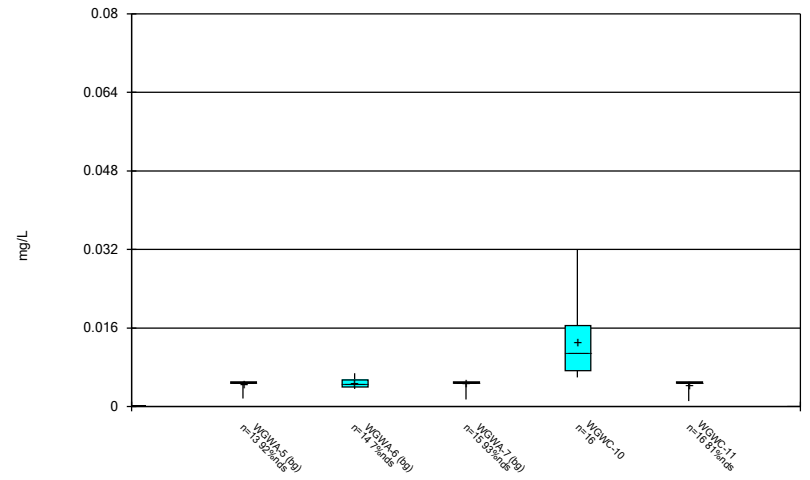
Constituent: Lead Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



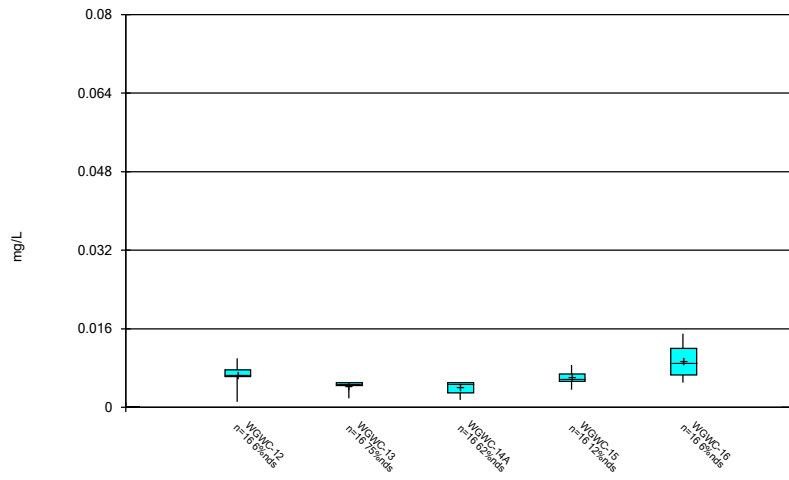
Constituent: Lithium Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



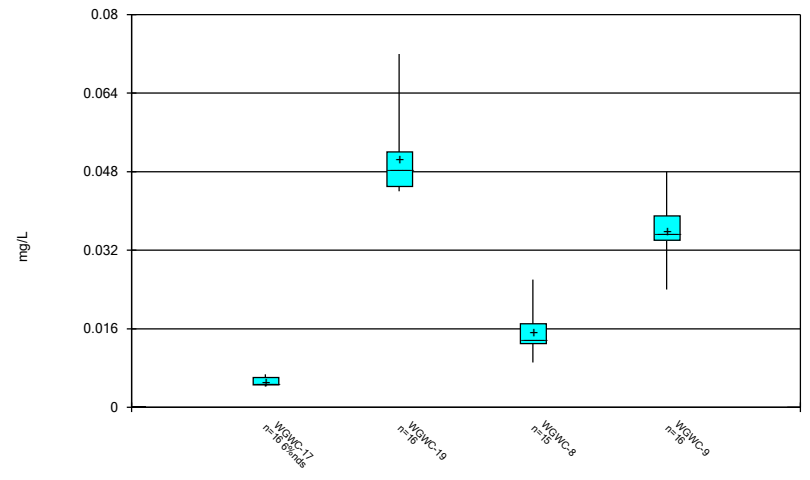
Constituent: Lithium Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



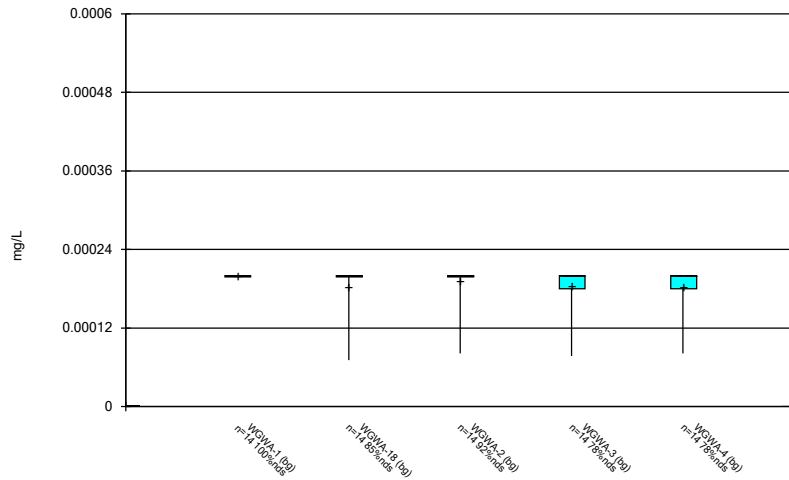
Constituent: Lithium Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



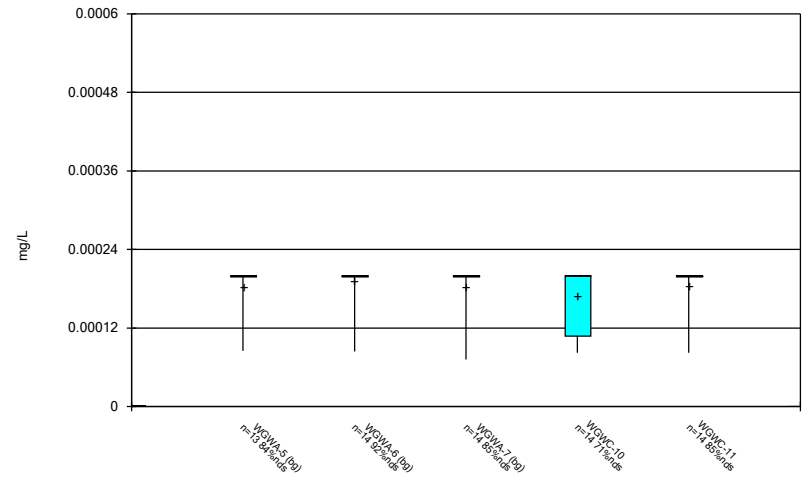
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



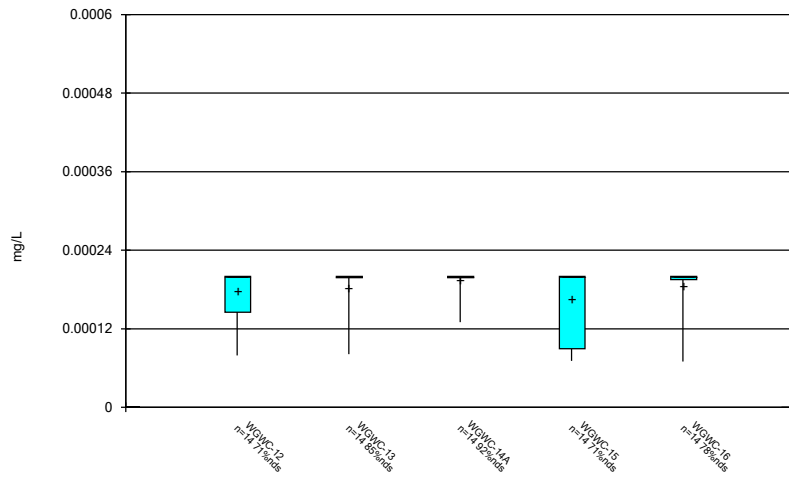
Constituent: Mercury Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



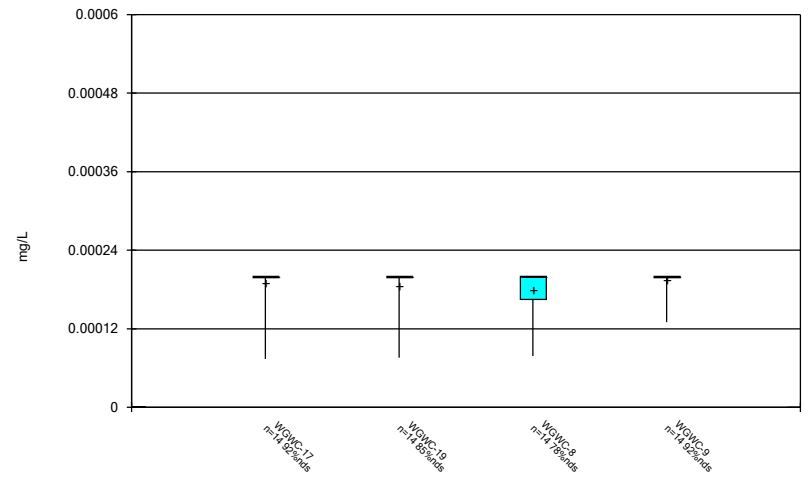
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



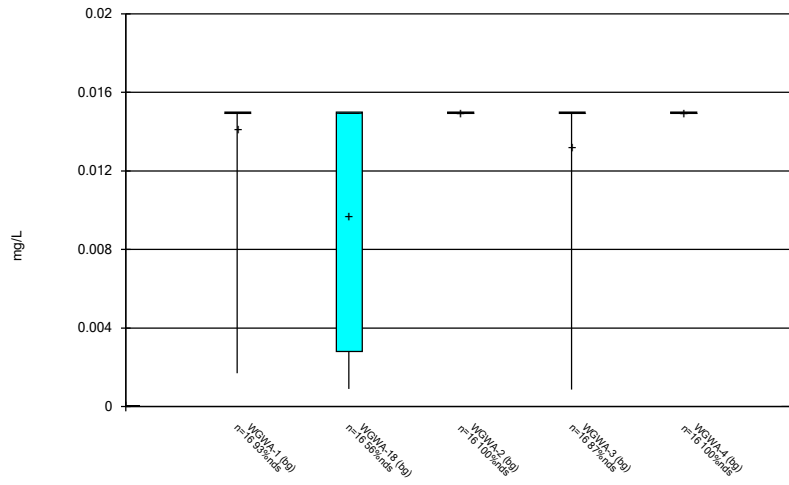
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



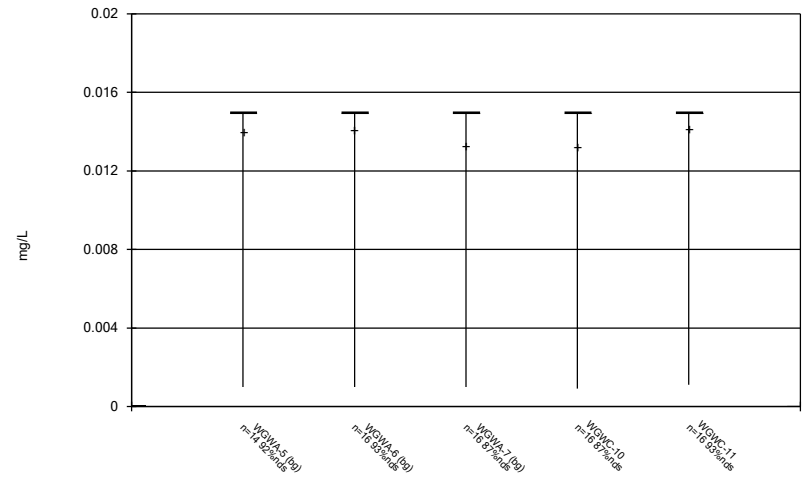
Constituent: Mercury Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



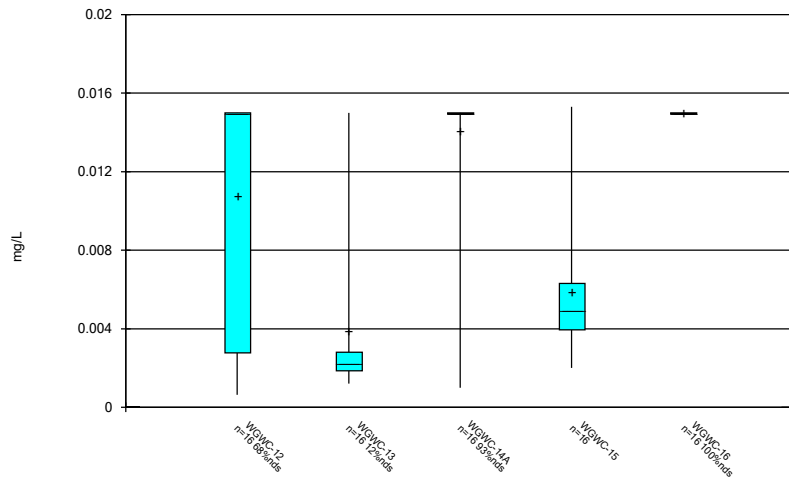
Constituent: Molybdenum Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



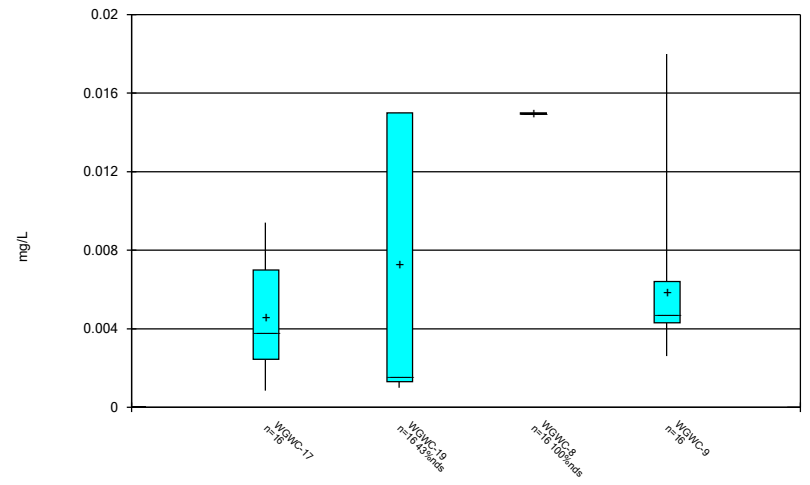
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



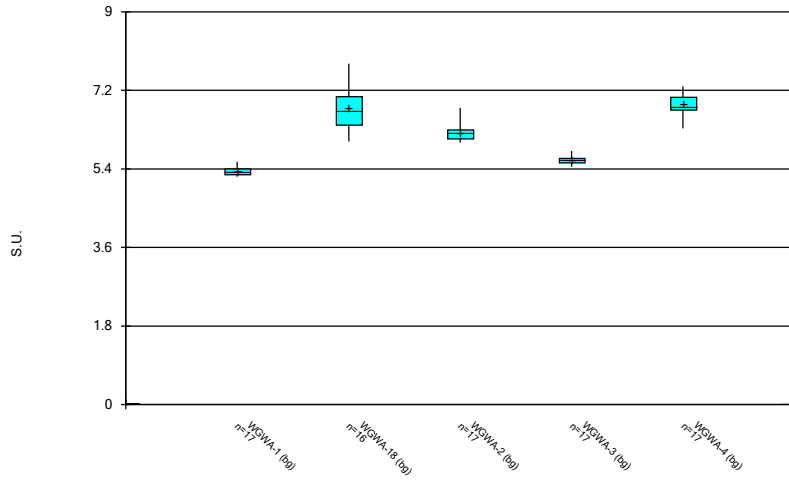
Constituent: Molybdenum Analysis Run 7/22/2020 12:05 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



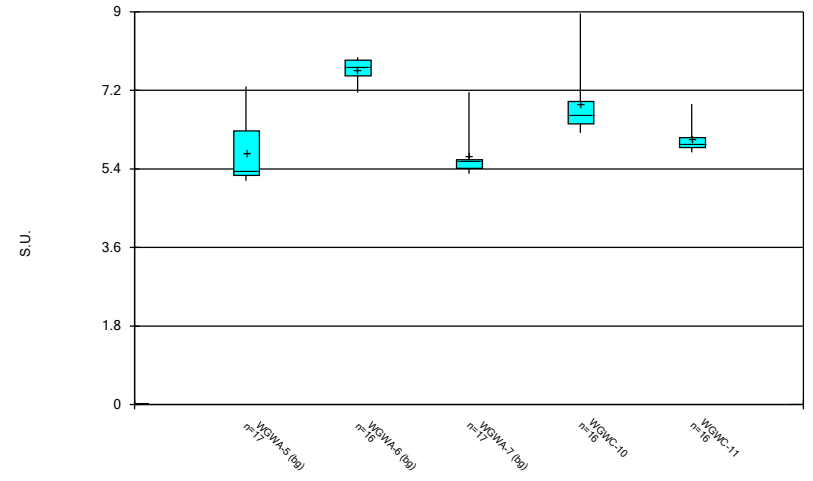
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



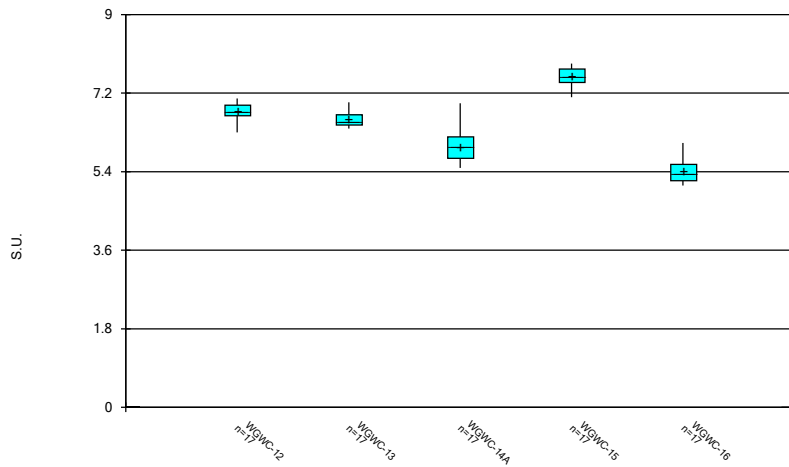
Constituent: pH Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



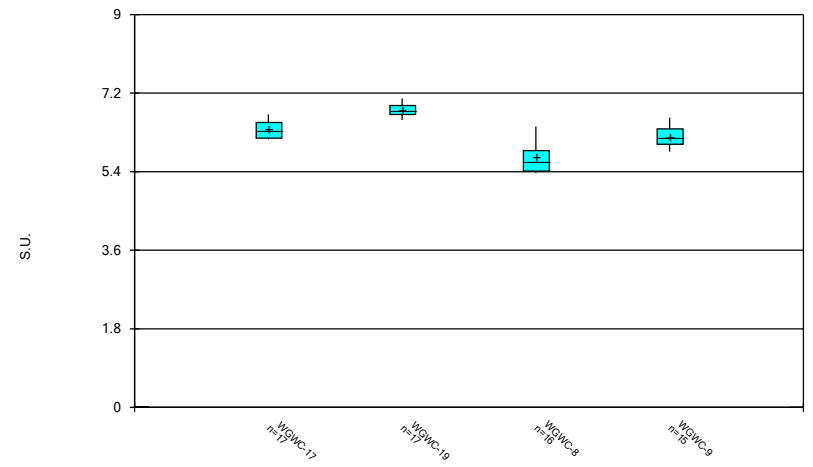
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



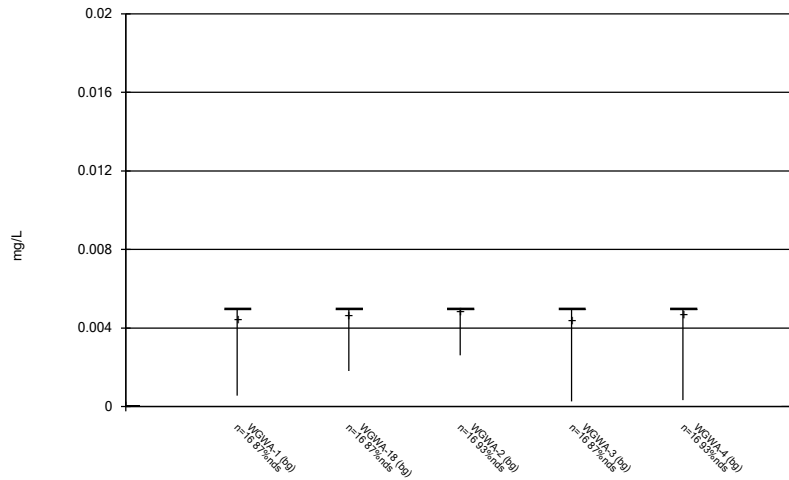
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Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



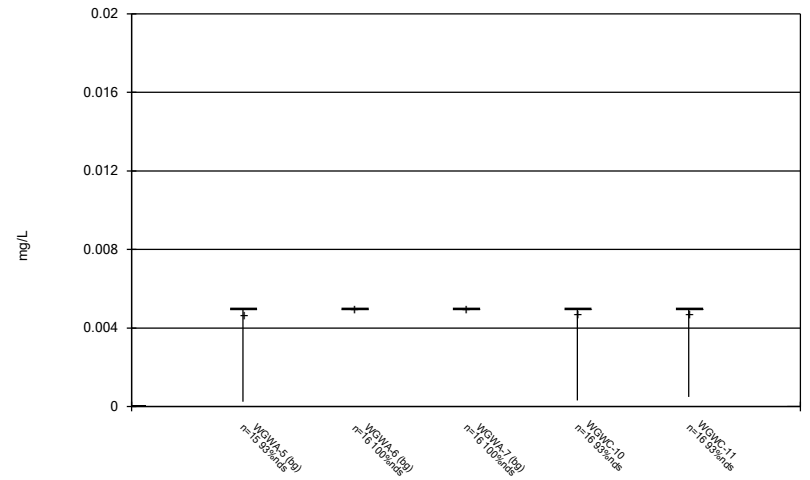
Constituent: pH Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



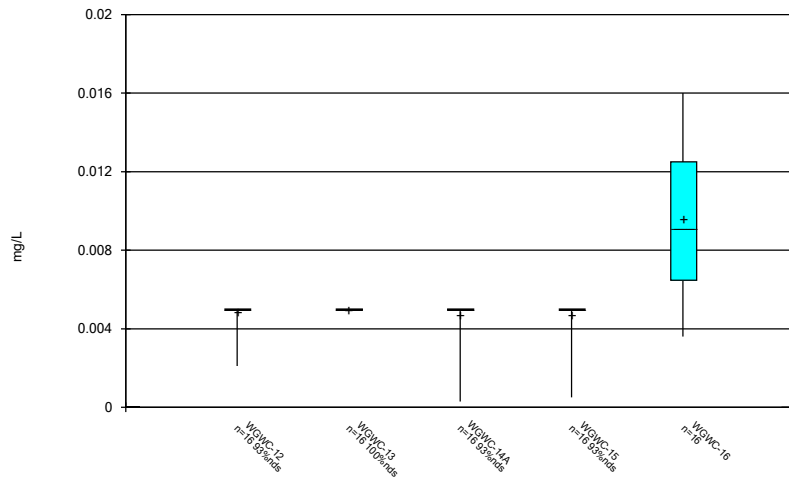
Constituent: Selenium Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



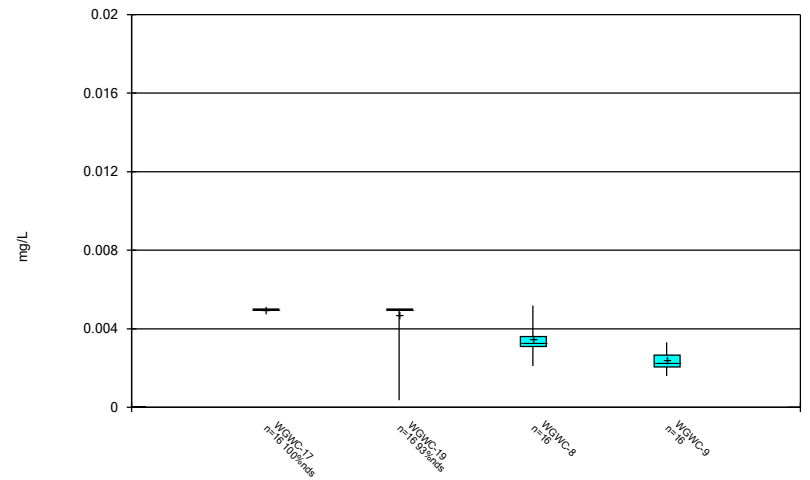
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



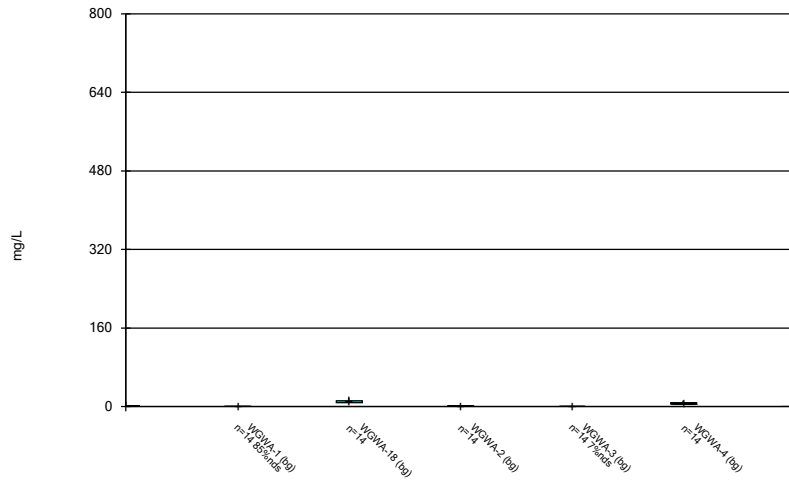
Constituent: Selenium Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



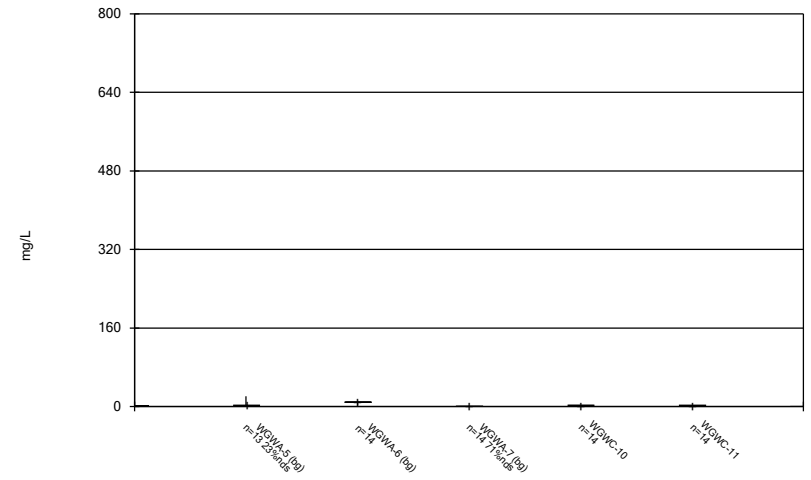
Constituent: Selenium Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



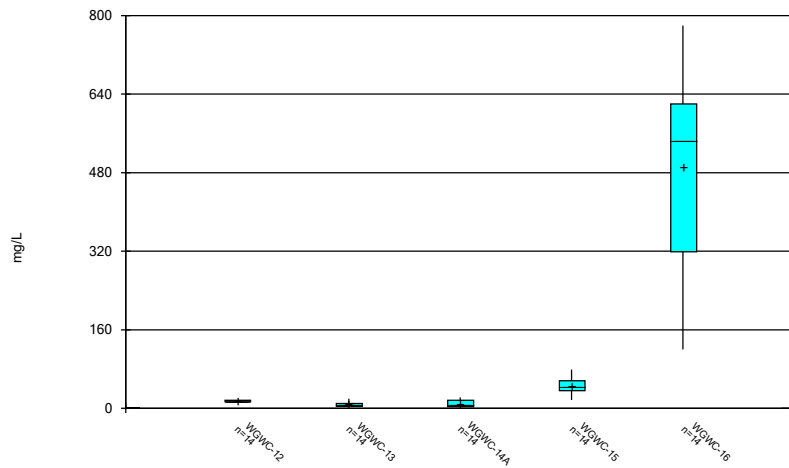
Constituent: Sulfate Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



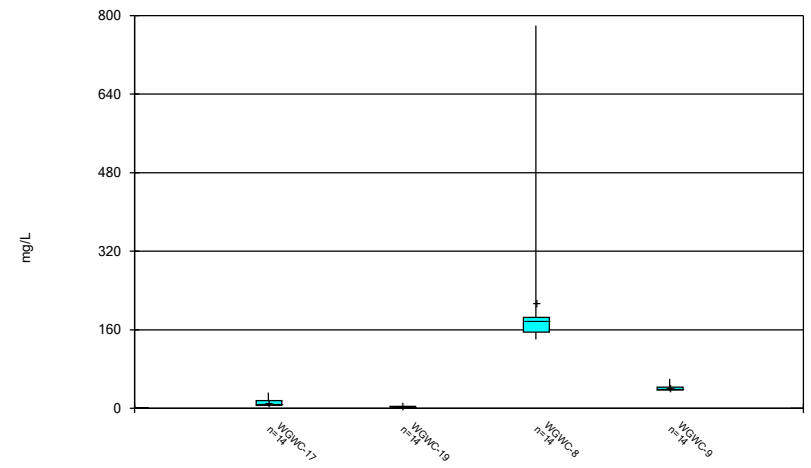
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



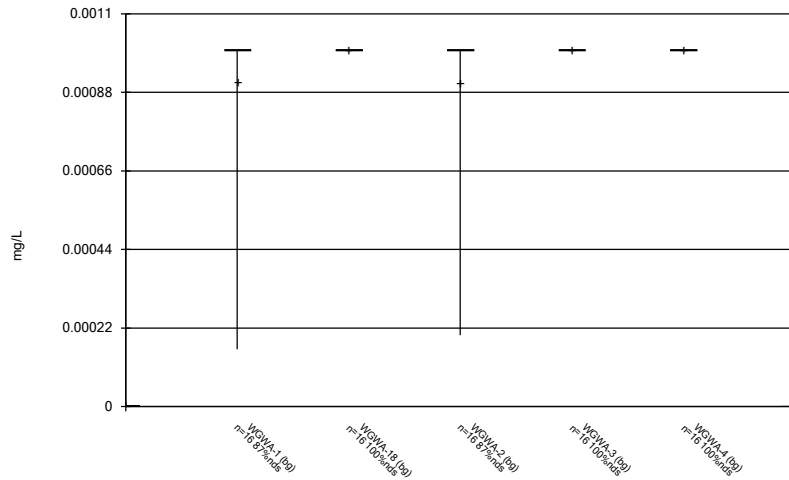
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 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



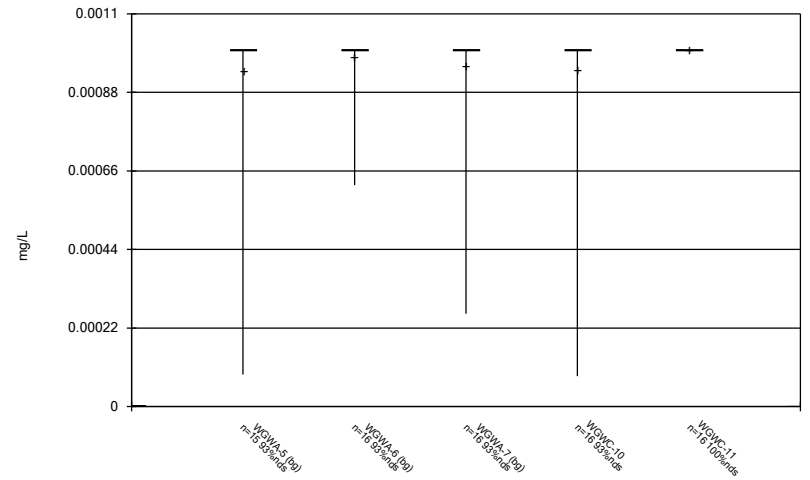
Constituent: Sulfate Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



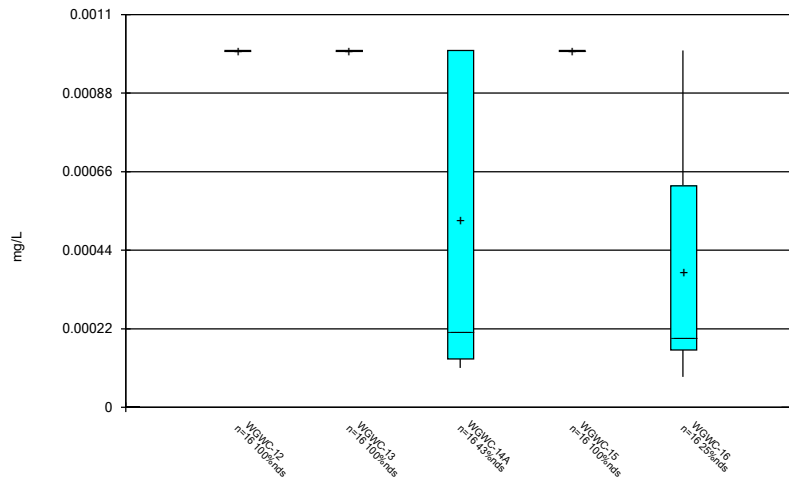
Constituent: Thallium Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



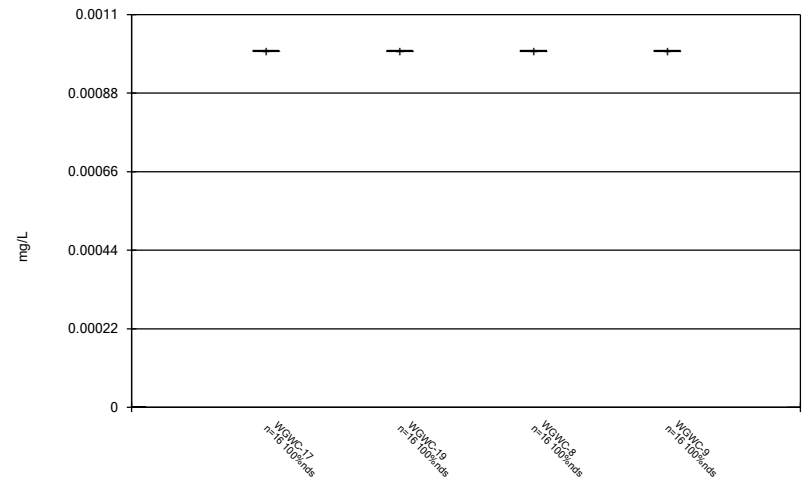
Constituent: Thallium Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



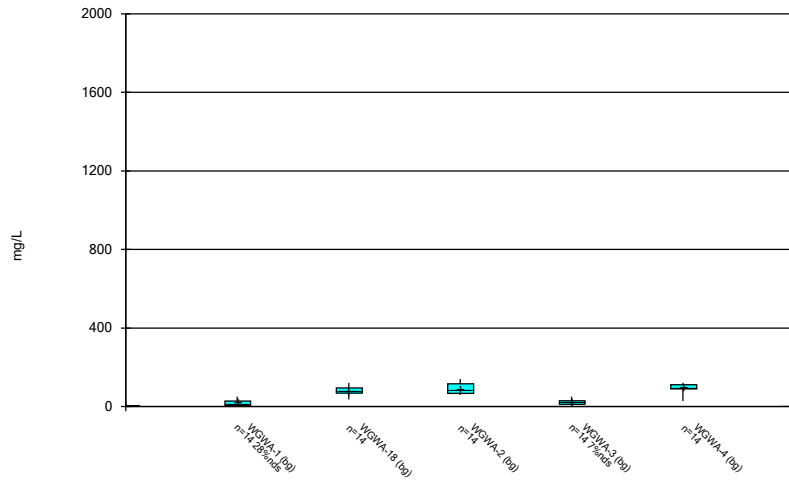
Constituent: Thallium Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



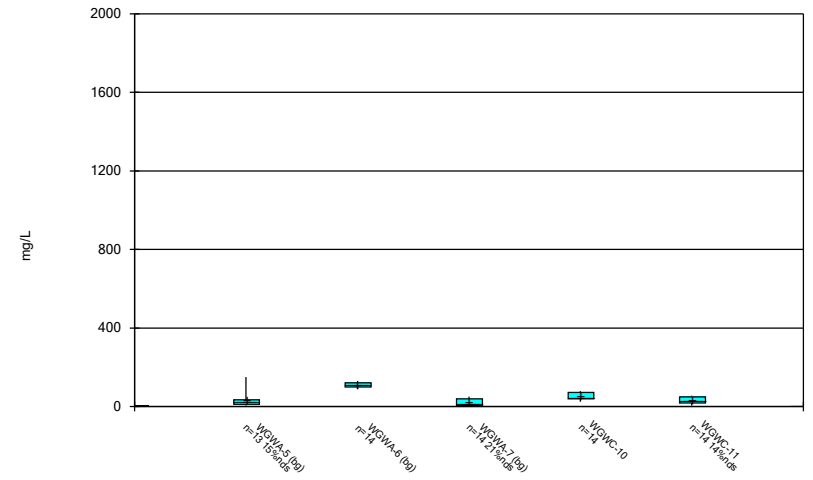
Constituent: Thallium Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



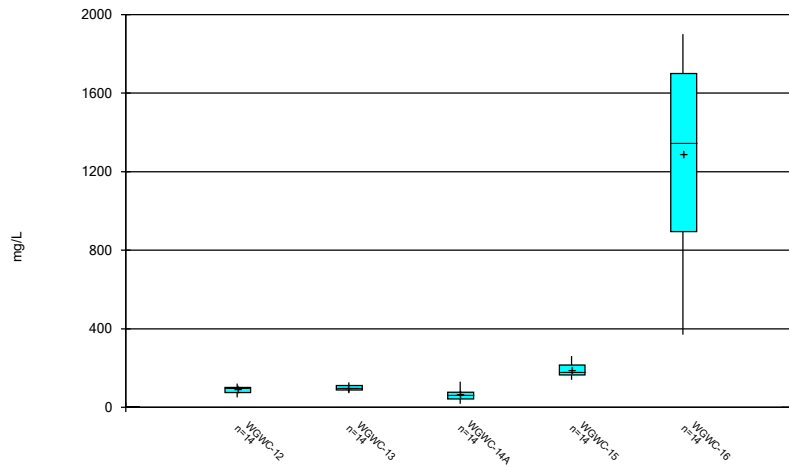
Constituent: Total Dissolved Solids Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



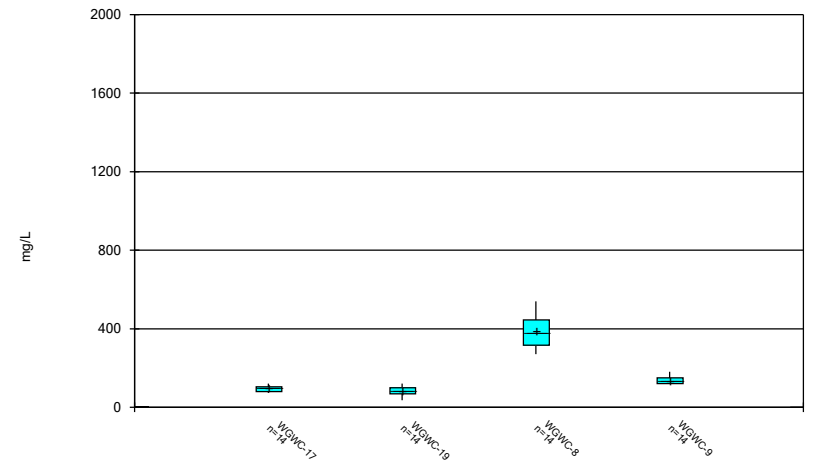
Constituent: Total Dissolved Solids Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 7/22/2020 12:06 PM View: All Wells and Constituents
 Plant Wansley Client: Southern Company Data: Wansley AP

FIGURE C.

Outlier

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 9:09 PM

	WGWC-12 Calcium (mg/L)	WGWA-5 Cobalt (mg/L)	WGWA-1 Combined Radium 226 + 228 (pCi/L)	WGWA-6 Combined Radium 226 + 228 (pCi/L)	WGWA-1 Lithium (mg/L)	WGWA-18 Lithium (mg/L)	WGWA-2 Lithium (mg/L)	WGWA-3 Lithium (mg/L)	WGWA-4 Lithium (mg/L)	WGWA-5 Lithium (mg/L)
5/17/2016				<0.005 (o)	<0.005 (o)	<0.05 (o)				
5/18/2016								<0.005 (o)	<0.05 (o)	<0.005 (o)
7/19/2016			7.25 (o)							
9/14/2016										
1/19/2017		0.064 (O)								
3/14/2017				0.589 (O)						
4/26/2017	3 (o)									

	WGWA-6 Lithium (mg/L)	WGWA-7 Lithium (mg/L)	WGWA-5 Molybdenum (mg/L)
5/17/2016			
5/18/2016	<0.005 (o)	<0.005 (o)	
7/19/2016			
9/14/2016			0.016 (o)
1/19/2017			
3/14/2017			
4/26/2017			

FIGURE D.

Interwell Prediction Limit - Significant Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Boron (mg/L)	WGWC-16	0.08	n/a	3/18/2020	2	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	3/19/2020	2.2	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	3/19/2020	0.55	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-16	52	n/a	3/18/2020	66	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-8	52	n/a	3/19/2020	79	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-16	6.05	n/a	3/18/2020	93	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-8	6.05	n/a	3/19/2020	98	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-15	0.284	n/a	3/18/2020	0.71	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-19	0.284	n/a	5/4/2020	0.36	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-9	0.284	n/a	3/19/2020	1	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-16	7.96	5.13	3/18/2020	5.08	Yes	134	0	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-16	21	n/a	3/18/2020	120	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-8	21	n/a	3/19/2020	200	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-9	21	n/a	3/19/2020	45	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-15	150	n/a	3/18/2020	160	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-16	150	n/a	3/18/2020	370	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-8	150	n/a	3/19/2020	540	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-9	150	n/a	3/19/2020	160	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...

Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	WGWC-10	0.08	n/a	3/18/2020	0.049J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-11	0.08	n/a	3/18/2020	0.08ND	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-12	0.08	n/a	3/18/2020	0.039J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-13	0.08	n/a	3/19/2020	0.053J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-14A	0.08	n/a	3/19/2020	0.039J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-15	0.08	n/a	3/18/2020	0.071J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-16	0.08	n/a	3/18/2020	2	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-17	0.08	n/a	3/18/2020	0.049J	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-19	0.08	n/a	5/4/2020	0.08ND	No	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	3/19/2020	2.2	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	3/19/2020	0.55	Yes	111	99.1	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-10	52	n/a	3/18/2020	7.5	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-11	52	n/a	3/18/2020	1.6	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-12	52	n/a	3/18/2020	14	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-13	52	n/a	3/19/2020	5	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-14A	52	n/a	3/19/2020	0.89	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-15	52	n/a	3/18/2020	30	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-16	52	n/a	3/18/2020	66	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-17	52	n/a	3/18/2020	6.3	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-19	52	n/a	5/4/2020	15	No	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-8	52	n/a	3/19/2020	79	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	WGWC-9	52	n/a	3/19/2020	9.3	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-10	6.05	n/a	3/18/2020	1.5	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-11	6.05	n/a	3/18/2020	3.2	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-12	6.05	n/a	3/18/2020	3.2	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-13	6.05	n/a	3/19/2020	1.3	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-14A	6.05	n/a	3/19/2020	1.9	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-15	6.05	n/a	3/18/2020	1.7	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-16	6.05	n/a	3/18/2020	93	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-17	6.05	n/a	3/18/2020	1.5	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-19	6.05	n/a	5/4/2020	2.8	No	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-8	6.05	n/a	3/19/2020	98	Yes	111	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	WGWC-9	6.05	n/a	3/19/2020	2.1	No	111	0	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-10	0.284	n/a	3/18/2020	0.052J	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-11	0.284	n/a	3/18/2020	0.1ND	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-12	0.284	n/a	3/18/2020	0.033J	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-13	0.284	n/a	3/19/2020	0.15	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-14A	0.284	n/a	3/19/2020	0.1ND	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-15	0.284	n/a	3/18/2020	0.71	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-16	0.284	n/a	3/18/2020	0.084J	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-17	0.284	n/a	3/18/2020	0.1ND	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-19	0.284	n/a	5/4/2020	0.36	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-8	0.284	n/a	3/19/2020	0.057J	No	135	49.63	n/a	0.000...	NP Inter (normality) ...
Fluoride (mg/L)	WGWC-9	0.284	n/a	3/19/2020	1	Yes	135	49.63	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-10	7.96	5.13	3/18/2020	6.4	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-11	7.96	5.13	3/18/2020	5.89	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-12	7.96	5.13	3/18/2020	6.94	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-13	7.96	5.13	3/19/2020	6.56	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-14A	7.96	5.13	3/19/2020	5.49	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-15	7.96	5.13	3/18/2020	7.73	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-16	7.96	5.13	3/18/2020	5.08	Yes	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-17	7.96	5.13	3/18/2020	6.28	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-19	7.96	5.13	5/4/2020	6.9	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-8	7.96	5.13	3/19/2020	6.43	No	134	0	n/a	0.000...	NP Inter (normality) ...
pH (S.U.)	WGWC-9	7.96	5.13	3/19/2020	6.64	No	134	0	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-10	21	n/a	3/18/2020	2.1	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-11	21	n/a	3/18/2020	1.6	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-12	21	n/a	3/18/2020	12	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-13	21	n/a	3/19/2020	4	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-14A	21	n/a	3/19/2020	1.5	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-15	21	n/a	3/18/2020	17	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-16	21	n/a	3/18/2020	120	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-17	21	n/a	3/18/2020	4.2	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-19	21	n/a	5/4/2020	4.5	No	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-8	21	n/a	3/19/2020	200	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	WGWC-9	21	n/a	3/19/2020	45	Yes	111	23.42	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-10	150	n/a	3/18/2020	58	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-11	150	n/a	3/18/2020	26	No	111	9.009	n/a	0.000...	NP Inter (normality) ...

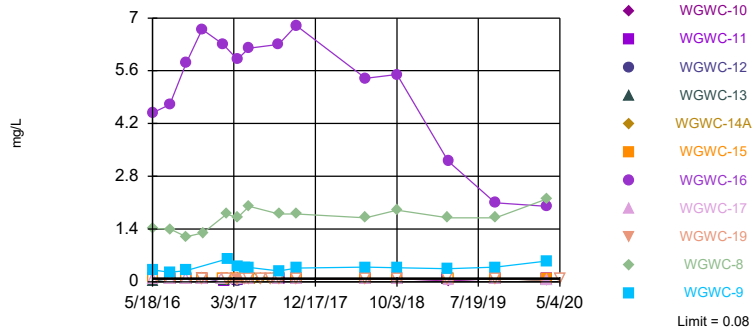
Interwell Prediction Limit - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Total Dissolved Solids (mg/L)	WGWC-12	150	n/a	3/18/2020	73	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-13	150	n/a	3/19/2020	95	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-14A	150	n/a	3/19/2020	18	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-15	150	n/a	3/18/2020	160	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-16	150	n/a	3/18/2020	370	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-17	150	n/a	3/18/2020	98	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-19	150	n/a	5/4/2020	110	No	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-8	150	n/a	3/19/2020	540	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	WGWC-9	150	n/a	3/19/2020	160	Yes	111	9.009	n/a	0.000...	NP Inter (normality) ...

Exceeds Limit: WGWC-16, WGWC-8,
WGWC-9

Prediction Limit Interwell Non-parametric

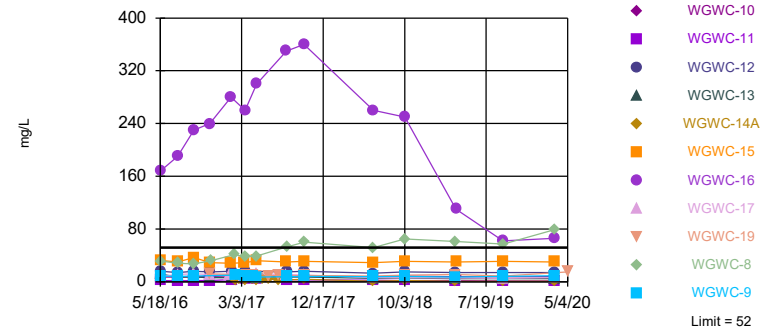


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 111 background values. 99.1% NDs. Annual per-constituent alpha = 0.003525. Individual comparison alpha = 0.0001605 (1 of 2). Comparing 11 points to limit.

Constituent: Boron Analysis Run 6/18/2020 7:38 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit Interwell Non-parametric

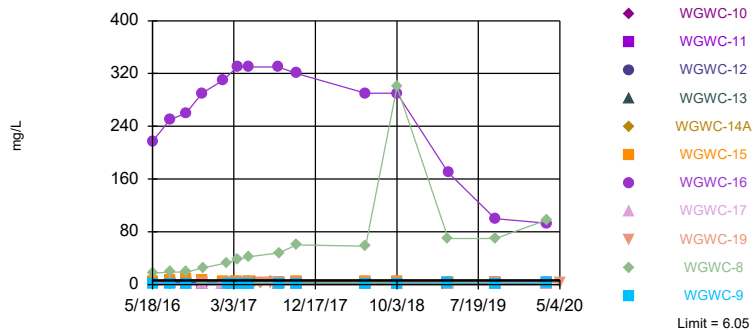


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 111 background values. Annual per-constituent alpha = 0.003525. Individual comparison alpha = 0.0001605 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium Analysis Run 6/18/2020 7:38 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit Interwell Non-parametric

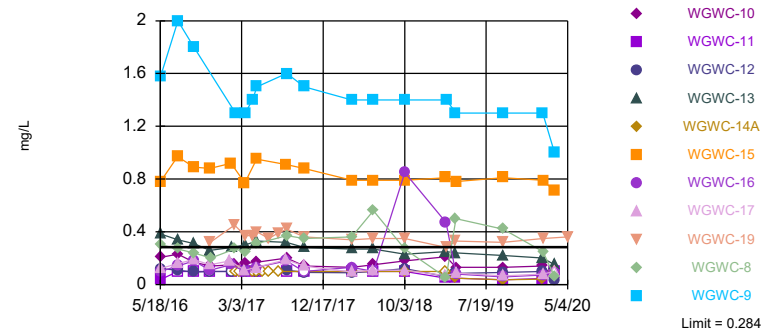


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 111 background values. Annual per-constituent alpha = 0.003525. Individual comparison alpha = 0.0001605 (1 of 2). Comparing 11 points to limit.

Constituent: Chloride Analysis Run 6/18/2020 7:39 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

Exceeds Limit: WGWC-15, WGWC-19,
WGWC-9

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 135 background values. 49.63% NDs. Annual per-constituent alpha = 0.002377. Individual comparison alpha = 0.0001082 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 6/18/2020 7:39 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/18/2020 7:42 PM View: All

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWC-15	WGWA-7 (bg)	WGWC-16	WGWA-6 (bg)	WGWC-17
5/17/2016	<0.08	<0.08	<0.08						
5/18/2016				<0.08	<0.08	<0.08	4.48	<0.08	<0.08
5/19/2016									
7/19/2016	<0.08	<0.08	<0.08		<0.08	<0.08	4.7	<0.08	
7/20/2016				<0.08					<0.08
9/13/2016	<0.08	<0.08	<0.08			<0.08		<0.08	
9/14/2016				<0.08	<0.08		5.8		<0.08
9/15/2016									
11/9/2016	<0.08	<0.08	<0.08					<0.08	
11/10/2016					<0.08	<0.08	6.7		<0.08
11/11/2016				<0.08					
11/14/2016									
1/17/2017	<0.08	<0.08							
1/18/2017						<0.08		<0.08	
1/19/2017			<0.08						
1/20/2017									<0.08
1/24/2017					<0.08		6.3		
1/27/2017									
2/6/2017				<0.08					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.08	<0.08							
3/14/2017			<0.08		<0.08	<0.08		<0.08	<0.08
3/15/2017				0.032 (J)			5.9		
3/17/2017									
4/11/2017									
4/24/2017	<0.08	<0.08							
4/25/2017			<0.08		<0.08	<0.08	6.2	<0.08	<0.08
4/26/2017				<0.08					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.08	<0.08	<0.08			<0.08		<0.08	
8/9/2017					<0.08		6.3		<0.08
8/10/2017				<0.08					
10/10/2017	<0.08	<0.08							
10/11/2017			<0.08		<0.08	<0.08	6.8	<0.08	<0.08
10/12/2017				<0.08					
6/13/2018	<0.08		<0.08					<0.08	
6/14/2018		<0.08		<0.08	<0.08	<0.08	5.4		<0.08
9/24/2018		<0.08							
9/27/2018	<0.08								
9/28/2018			<0.08						
10/2/2018								<0.08	
10/3/2018					<0.08	<0.08			
10/4/2018				<0.08			5.5		<0.08
4/1/2019	<0.08	<0.08							
4/2/2019			<0.08			<0.08		<0.08	
4/3/2019									
4/4/2019				0.024 (J)	<0.08		3.2		0.049 (J)
9/16/2019	<0.08							<0.08	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	<0.08
2/9/2017	
2/23/2017	<0.08
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.08
4/11/2017	<0.08
4/24/2017	
4/25/2017	
4/26/2017	<0.08
5/17/2017	<0.08
6/7/2017	<0.08
7/11/2017	<0.08
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.08
10/12/2017	
6/13/2018	
6/14/2018	<0.08
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.08
4/1/2019	
4/2/2019	
4/3/2019	<0.08
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

9/17/2019	
9/18/2019	<0.08
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.039 (J)
5/4/2020	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/18/2020 7:42 PM View: All

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWC-15	WGWA-5 (bg)	WGWC-16
5/17/2016	0.927	12.2	23.7						
5/18/2016				7.17	1.36	27	32.5	1.7	168
5/19/2016									
7/19/2016	1	13	23		0.88	23	30	1.5	190
7/20/2016				7					
9/13/2016	0.44	13	23		0.93	25			
9/14/2016				7.7			37	52	230
9/15/2016									
11/9/2016	1.1	19	6.7			25			
11/10/2016					6.1		29		240
11/11/2016				8.2					
11/14/2016									
1/17/2017	1.4	28							
1/18/2017					10	26			
1/19/2017			8.5					13	
1/20/2017									
1/24/2017							28		280
1/27/2017									
2/6/2017				9.1					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	1.1	14							
3/14/2017			13		1.3	20	29	1.6	
3/15/2017				9					260
3/17/2017									
4/11/2017									
4/24/2017	1.1	12							
4/25/2017			23		1.9	28	32	1.5	300
4/26/2017				8.1					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	1.1	18	24		4.8	26			
8/9/2017							30	1.3	350
8/10/2017				8.1					
10/10/2017	1.2	21							
10/11/2017			23		0.93	29	31	1.5	360
10/12/2017				8.6					
6/13/2018	1.1		11			25		1.2	
6/14/2018		12		7.7	0.94		29		260
9/24/2018		11							
9/27/2018	1.2								
9/28/2018			11						
10/2/2018						26			
10/3/2018					1.2		31	1.4	
10/4/2018				8.5					250
4/1/2019	1	12							
4/2/2019			20		1.1	25		1.1	
4/3/2019									
4/4/2019				7.9			30		110
9/16/2019	1.3					25		36	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	3.2
2/9/2017	
2/23/2017	4.1
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	2.4
4/11/2017	4.1
4/24/2017	
4/25/2017	
4/26/2017	2.5
5/17/2017	5.2
6/7/2017	5.2
7/11/2017	2.3
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	3.8
10/12/2017	
6/13/2018	
6/14/2018	1.1
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2
4/1/2019	
4/2/2019	
4/3/2019	0.84
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

9/17/2019	
9/18/2019	0.85
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.89
5/4/2020	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	2.5
2/9/2017	
2/23/2017	4.3
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	4.8
4/11/2017	3.8
4/24/2017	
4/25/2017	
4/26/2017	4.8
5/17/2017	3.9
6/7/2017	3.2
7/11/2017	4.1
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	2.2
10/12/2017	
6/13/2018	
6/14/2018	2.8
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2.2
4/1/2019	
4/2/2019	
4/3/2019	2.4
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

9/17/2019	
9/18/2019	2.2
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	1.9
5/4/2020	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/18/2020 7:42 PM View: All

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	0.0131 (J)	0.0538 (J)	0.284 (J)						
5/18/2016				0.206	0.018 (J)	0.779	0.106 (J)	0.1 (J)	0.014 (J)
5/19/2016									
7/19/2016	<0.1	<0.1	0.21		<0.1	0.97	0.11 (J)	0.14 (J)	<0.1
7/20/2016				0.23					
9/13/2016	<0.1	<0.1	0.15 (J)		<0.1		0.11 (J)		
9/14/2016				0.17 (J)		0.89		0.18 (J)	0.095 (J)
9/15/2016									
11/9/2016	<0.1	0.085 (J)	<0.1				0.1 (J)		
11/10/2016					<0.1	0.88		0.11 (J)	
11/11/2016				0.14 (J)					
11/14/2016									
1/17/2017	<0.1	<0.1							
1/18/2017					<0.1		0.11 (J)		
1/19/2017			0.087 (J)						<0.1
1/20/2017									
1/24/2017						0.92		0.15 (J)	
1/27/2017									
2/6/2017				0.15 (J)					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.1	<0.1							
3/14/2017			<0.1		<0.1	0.77	<0.1		<0.1
3/15/2017				0.16 (J)				0.1 (J)	
3/17/2017									
4/11/2017									
4/24/2017	<0.1	<0.1							
4/25/2017			<0.1		<0.1	0.95	<0.1	0.13 (J)	<0.1
4/26/2017				0.17 (J)					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.1	<0.1	0.087 (J)		<0.1		0.099 (J)		
8/9/2017						0.91		0.18 (J)	<0.1
8/10/2017				0.2					
10/10/2017	<0.1	0.18 (J)							
10/11/2017			0.09 (J)		<0.1	0.88	0.098 (J)	<0.1	<0.1
10/12/2017				0.14 (J)					
3/27/2018	<0.1	<0.1							
3/28/2018			0.11 (J)		<0.1		0.088 (J)		<0.1
3/29/2018								0.13 (J)	
3/30/2018				0.13 (J)		0.79			
6/13/2018	<0.1		0.085 (J)				0.093 (J)		<0.1
6/14/2018		<0.1		0.15 (J)	<0.1	0.79		<0.1	
9/24/2018		<0.1							
9/27/2018	<0.1								
9/28/2018			0.082 (J)						
10/2/2018							0.13 (J)		
10/3/2018					<0.1	0.79			<0.1
10/4/2018				0.18 (J)				0.85 (J)	
2/25/2019	<0.1	0.032 (J)							

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	<0.1
2/9/2017	
2/23/2017	<0.1
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.1
4/11/2017	<0.1
4/24/2017	
4/25/2017	
4/26/2017	<0.1
5/17/2017	<0.1
6/7/2017	<0.1
7/11/2017	<0.1
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.1
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	<0.1
3/30/2018	
6/13/2018	
6/14/2018	<0.1
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.1
2/25/2019	

Prediction Limit

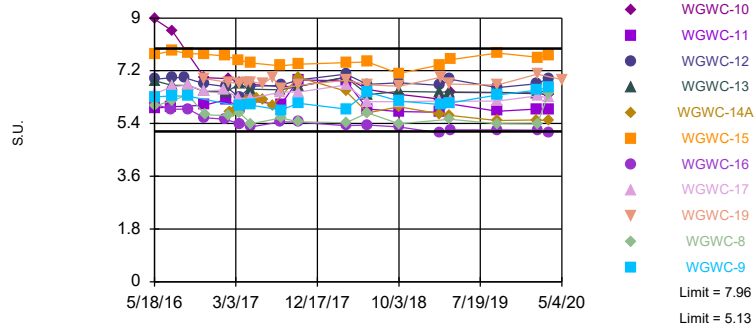
Constituent: Fluoride (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

2/26/2019	
2/27/2019	<0.1
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	0.048 (J)
4/4/2019	
9/16/2019	
9/17/2019	
9/18/2019	0.035 (J)
9/19/2019	
2/3/2020	
2/4/2020	
2/5/2020	0.04 (J)
2/7/2020	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.1
5/4/2020	

Exceeds Limits: WGWC-16

Prediction Limit Interwell Non-parametric

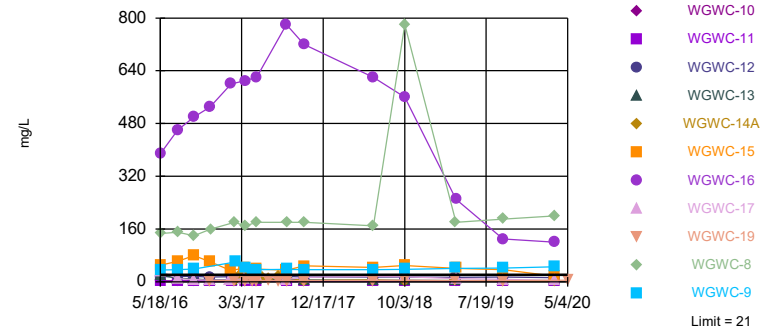


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 134 background values. Annual per-constituent alpha = 0.004832. Individual comparison alpha = 0.0002199 (1 of 2). Comparing 11 points to limit.

Constituent: pH Analysis Run 6/18/2020 7:39 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit Interwell Non-parametric



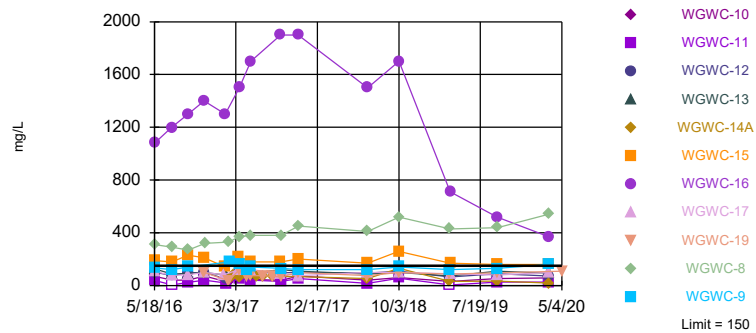
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 111 background values. 23.42% NDs. Annual per-constituent alpha = 0.003525. Individual comparison alpha = 0.0001605 (1 of 2). Comparing 11 points to limit.

Constituent: Sulfate Analysis Run 6/18/2020 7:39 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-15, WGWC-16, WGWC-8, WGWC-9

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 111 background values. 9.009% NDs. Annual per-constituent alpha = 0.003525. Individual comparison alpha = 0.0001605 (1 of 2). Comparing 11 points to limit.

Constituent: Total Dissolved Solids Analysis Run 6/18/2020 7:39 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

Prediction Limit

Constituent: pH (S.U.) Analysis Run 6/18/2020 7:42 PM View: All

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	5.24	6.23	7.81						
5/18/2016				8.96	5.5	7.75	7.92	6.06	5.47
5/19/2016									
7/18/2016	5.434038							5.884339	
7/19/2016		6.285413			5.43	7.876073	7.154587		5.336672
7/20/2016				8.56774					
9/1/2016									
9/13/2016	5.22	6.3	7.18		5.57		7.96		
9/14/2016						7.79		5.89	7.29
9/15/2016									
11/9/2016	5.57	6.26	6.03				7.27		
11/10/2016					6.93	7.76		5.6	
11/11/2016				6.96					
11/14/2016									
1/17/2017	5.48	6.8							
1/18/2017					7.16		7.72		
1/19/2017			6.71						6.59
1/20/2017									
1/24/2017						7.71		5.54	
1/27/2017									
2/6/2017				6.93					
2/8/2017									
2/23/2017									
3/13/2017	5.4	6.18							
3/14/2017			6.45		5.82	7.57			5.86
3/15/2017				6.82				5.39	
3/17/2017									
4/11/2017									
4/24/2017	5.4	6.35							
4/25/2017			6.93		5.57	7.47	7.73	5.28	5.35
4/26/2017				6.73					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	5.32	6.23	6.72		5.6		7.74		
8/9/2017						7.37		5.46	5.25
8/10/2017				6.66					
8/25/2017									5.44
10/10/2017	5.26	6.32							
10/11/2017			6.75		5.43	7.42	7.71	5.45	6.99
10/12/2017				6.67					
3/27/2018	5.39	6.14							
3/28/2018			6.84		5.29		7.28		5.95
3/29/2018								5.33	
3/30/2018				6.98		7.48			
6/13/2018	5.33		6.31				7.78		5.13
6/14/2018		6.02		6.56	5.39	7.5		5.35	
9/24/2018		6.1							
9/27/2018	5.33								
9/28/2018			6.26						
10/2/2018							7.52		
10/3/2018					5.33	7.11			5.22

Prediction Limit

Constituent: pH (S.U.) Analysis Run 6/18/2020 7:42 PM View: All

Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-12	WGWC-9	WGWC-19
5/17/2016									
5/18/2016	6.41	7.23	5.55						
5/19/2016				5.93	6.85	5.99	6.91	6.31	
7/18/2016				5.9661					
7/19/2016									
7/20/2016	6.662463	7.281557	5.656628		6.705264	6.194334	6.962608	6.345061	
9/1/2016							6.96		
9/13/2016		7.15	5.63						
9/14/2016	6.7				6.7			6.33	
9/15/2016						6.38			
11/9/2016									
11/10/2016	6.51	6.33	5.61		6.5				
11/11/2016				6.03			6.76		6.93
11/14/2016						5.7			
1/17/2017									
1/18/2017		6.94	5.81						
1/19/2017									
1/20/2017	6.55								
1/24/2017									
1/27/2017				6.21	6.47		6.66		
2/6/2017						5.66			6.8
2/8/2017									
2/23/2017									
3/13/2017									
3/14/2017	6.27	6.75	5.53						
3/15/2017				5.97	6.75	5.77	6.3	5.99	6.78
3/17/2017									
4/11/2017									6.79
4/24/2017									
4/25/2017	6.26	6.84	5.59						
4/26/2017				6.17	6.57	5.39	6.67	6.03	6.82
5/17/2017									
6/7/2017									6.76
7/11/2017									6.99
8/8/2017			5.52						
8/9/2017	6.47	6.67			6.55				
8/10/2017				6.05		5.59	6.7	5.86	6.59
8/25/2017									
10/10/2017									
10/11/2017	6.47	6.75	5.51						
10/12/2017				6.89	6.67	5.46	6.89	6.09	6.7
3/27/2018									
3/28/2018		6.79	5.6						
3/29/2018				6.85	6.99	5.43	7.08	5.89	6.88
3/30/2018	6.71								
6/13/2018									
6/14/2018	6.15	6.67	5.58	5.89	6.39	5.76	6.73	6.47	6.72
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		6.92	5.45						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/18/2016	
7/19/2016	
7/20/2016	
9/1/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	5.81
2/23/2017	5.8
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	5.97
4/11/2017	6.18
4/24/2017	
4/25/2017	
4/26/2017	6.09
5/17/2017	6.26
6/7/2017	6.21
7/11/2017	6
8/8/2017	
8/9/2017	
8/10/2017	
8/25/2017	
10/10/2017	
10/11/2017	6.97
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	6.51
3/30/2018	
6/13/2018	
6/14/2018	5.76
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

	WGWC-14A
10/4/2018	5.97
2/25/2019	
2/26/2019	
2/27/2019	5.73
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	5.68
4/4/2019	
9/16/2019	
9/17/2019	
9/18/2019	5.5
9/19/2019	
2/3/2020	
2/4/2020	
2/5/2020	5.52
2/7/2020	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	5.49
5/4/2020	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	4.3
2/9/2017	
2/23/2017	16
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	22
4/11/2017	13
4/24/2017	
4/25/2017	
4/26/2017	20
5/17/2017	12
6/7/2017	8.1
7/11/2017	17
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	3.4
10/12/2017	
6/13/2018	
6/14/2018	5.8
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2.8
4/1/2019	
4/2/2019	
4/3/2019	3.8
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

9/17/2019	
9/18/2019	1.7
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	1.5
5/4/2020	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	54
2/9/2017	
2/23/2017	78
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	56
4/11/2017	76
4/24/2017	
4/25/2017	
4/26/2017	76
5/17/2017	68
6/7/2017	72
7/11/2017	68
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	68
10/12/2017	
6/13/2018	
6/14/2018	52
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	130
4/1/2019	
4/2/2019	
4/3/2019	31
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/18/2020 7:42 PM View: All
Plant Wansley Client: Southern Company Data: Wansley AP

WGWC-14A

9/17/2019	
9/18/2019	33
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	18
5/4/2020	

FIGURE E.

Trend Test - Significant Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:49 PM

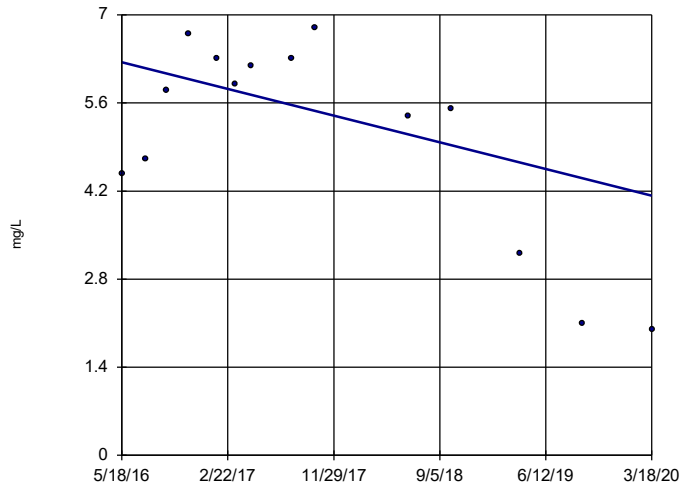
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	WGWC-8	12.62	69	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	21.55	81	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.09709	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWC-16	-0.1745	-111	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	15.7	60	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	63.11	74	48	Yes	14	0	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 6/18/2020, 7:49 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 (mg/L)	WGWC-16	-0.5536	-22	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-8	0.1578	36	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-9	0.02355	23	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-16	-6.426	-2	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-8	12.62	69	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-16	-16.32	-13	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	21.55	81	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-15	-0.04225	-50	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-19	-0.01651	-45	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.09709	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWC-16	-0.1745	-111	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-16	0	0	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	15.7	60	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-9	1.022	30	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-15	-7.918	-28	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-16	0	3	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	63.11	74	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-9	0	-6	-48	No	14	0	n/a	n/a	0.01	NP

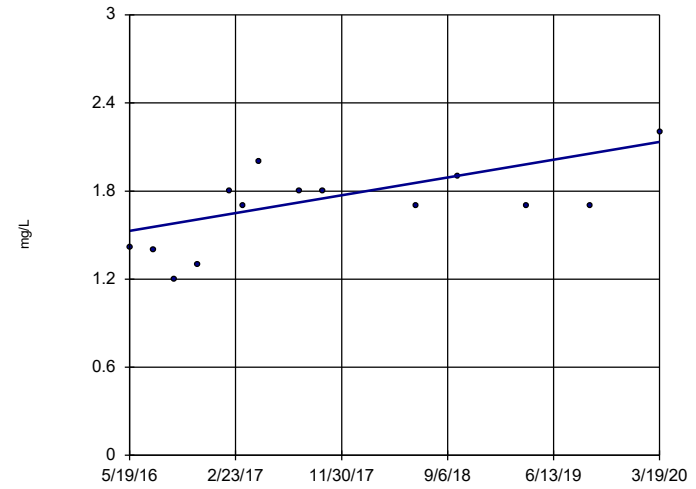
Sen's Slope Estimator WGWC-16



n = 14
 Slope = -0.5536
 units per year.
 Mann-Kendall
 statistic = -22
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 6/18/2020 7:46 PM View: All Trend Test
 Plant Wansley Client: Southern Company Data: Wansley AP

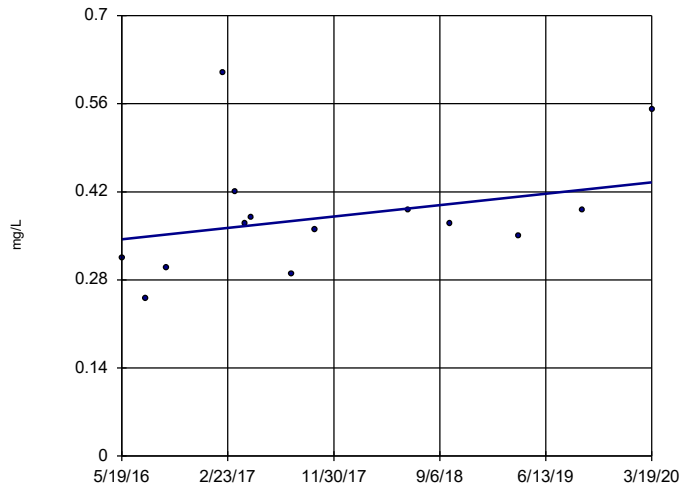
Sen's Slope Estimator WGWC-8



n = 14
 Slope = 0.1578
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 6/18/2020 7:46 PM View: All Trend Test
 Plant Wansley Client: Southern Company Data: Wansley AP

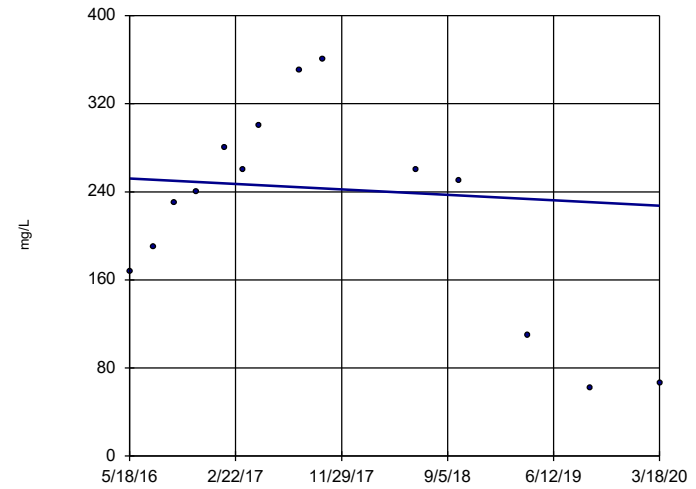
Sen's Slope Estimator WGWC-9



n = 14
 Slope = 0.02355
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 6/18/2020 7:46 PM View: All Trend Test
 Plant Wansley Client: Southern Company Data: Wansley AP

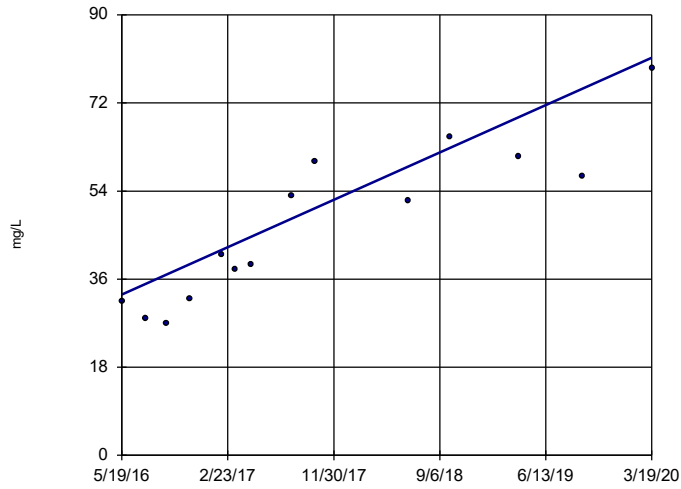
Sen's Slope Estimator WGWC-16



n = 14
 Slope = -6.426
 units per year.
 Mann-Kendall
 statistic = -2
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

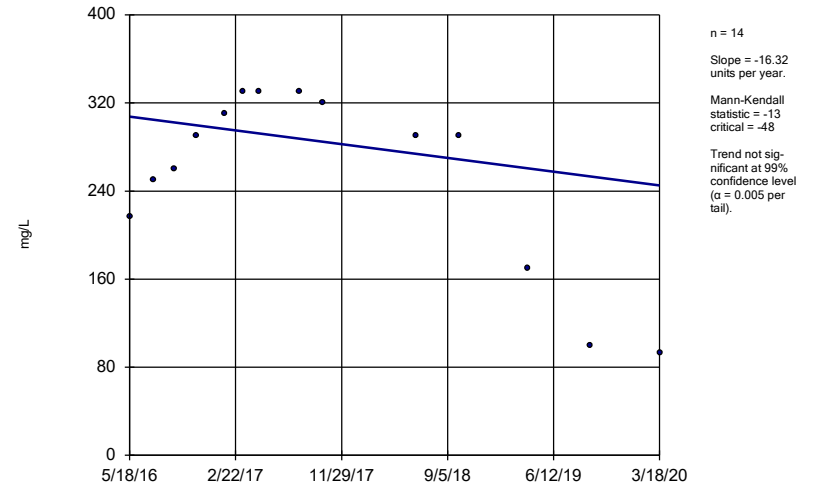
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 Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator WGWC-8



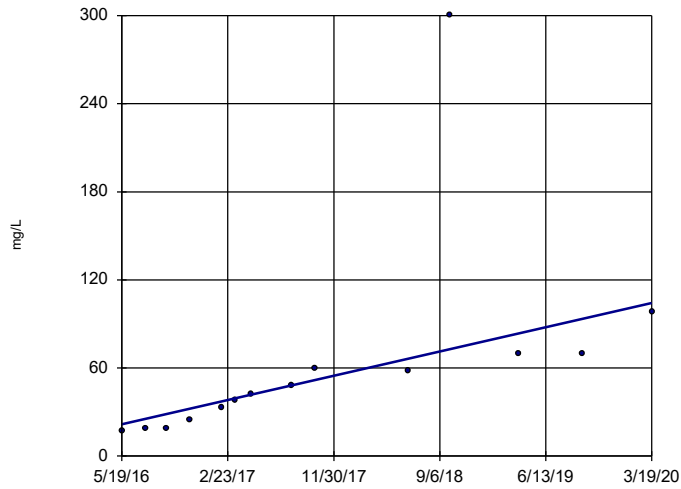
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Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator WGWC-16



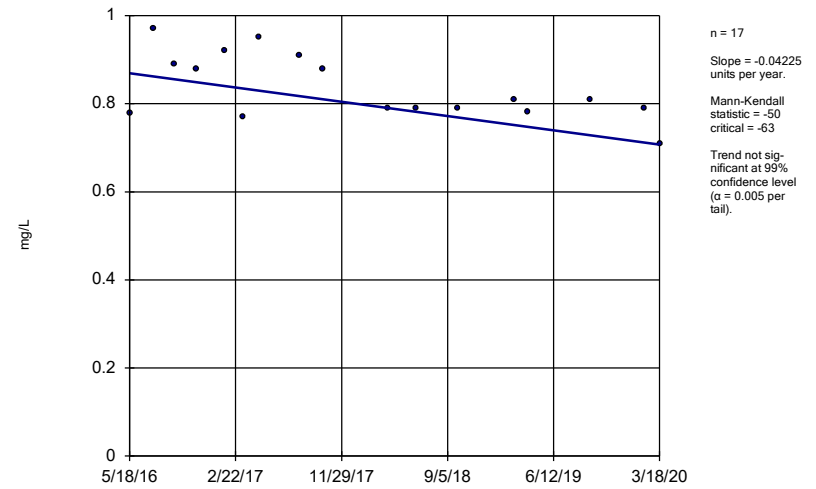
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Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator WGWC-8



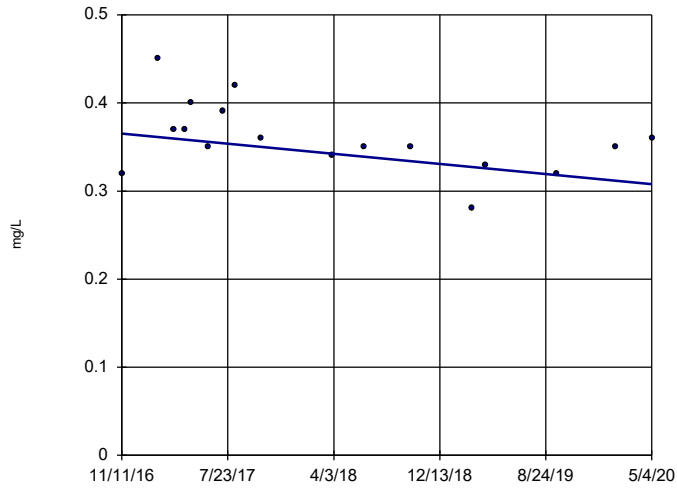
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Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator WGWC-15



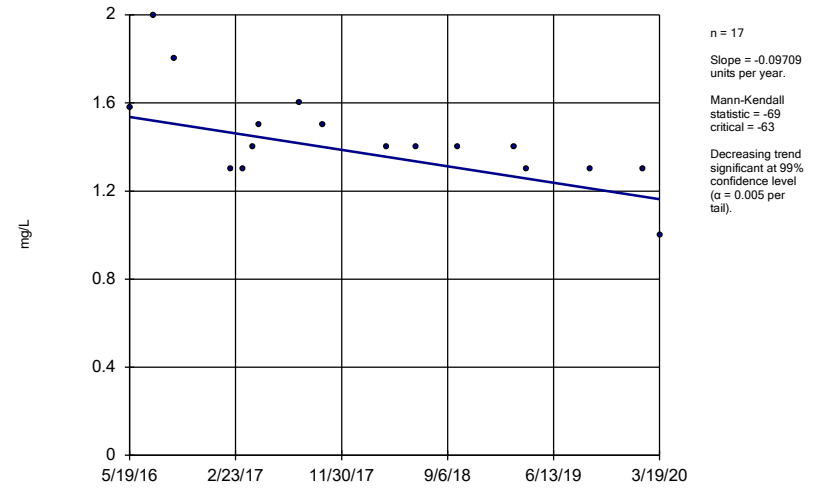
Constituent: Fluoride Analysis Run 6/18/2020 7:47 PM View: All Trend Test
Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator WGWC-19



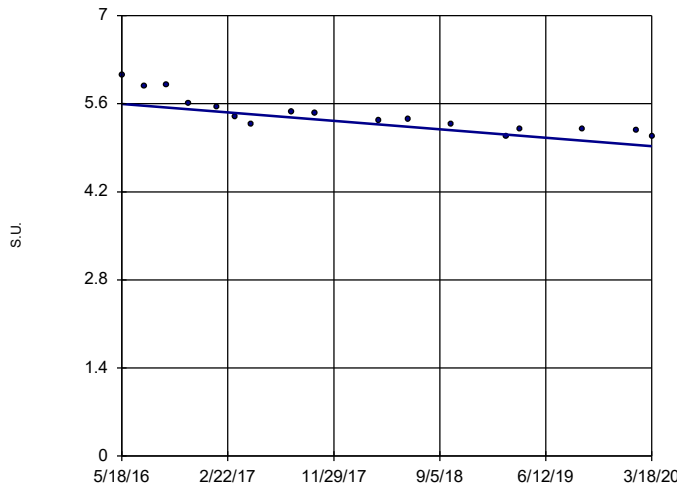
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Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator WGWC-9



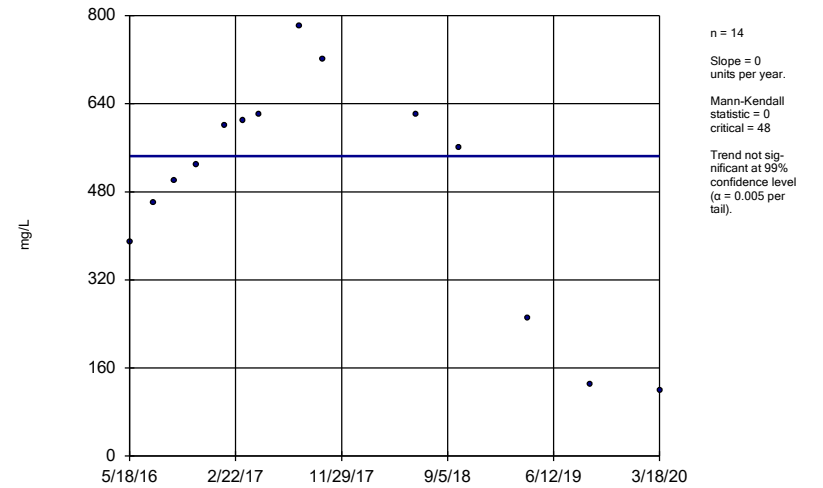
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Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator WGWC-16



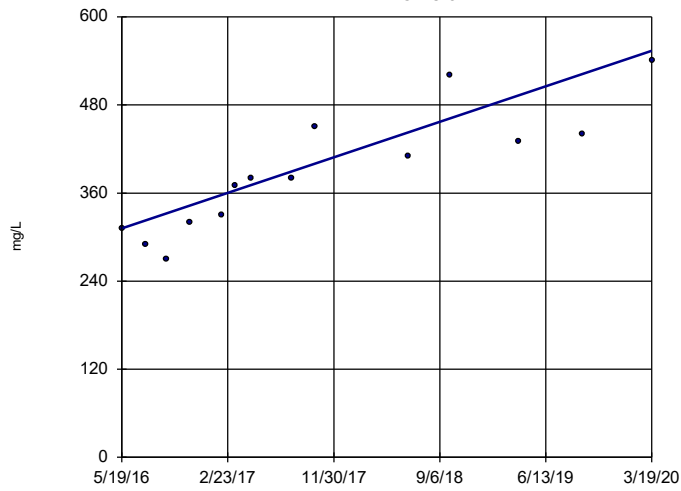
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Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator WGWC-16



Constituent: Sulfate Analysis Run 6/18/2020 7:47 PM View: All Trend Test
Plant Wansley Client: Southern Company Data: Wansley AP

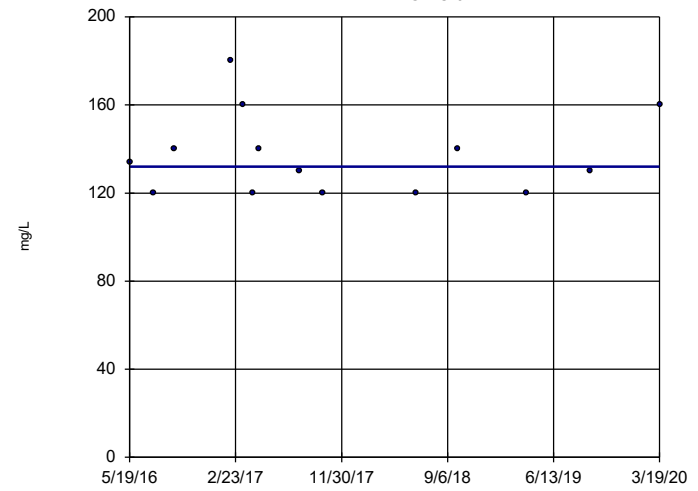
Sen's Slope Estimator
WGWC-8



n = 14
Slope = 63.11 units per year.
Mann-Kendall statistic = 74
critical = 48
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 6/18/2020 7:47 PM View: All Trend Test
Plant Wansley Client: Southern Company Data: Wansley AP

Sen's Slope Estimator
WGWC-9



n = 14
Slope = 0 units per year.
Mann-Kendall statistic = -6
critical = -48
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 6/18/2020 7:47 PM View: All Trend Test
Plant Wansley Client: Southern Company Data: Wansley AP

FIGURE F.

Upper Tolerance Limits

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 12:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0022	n/a	n/a	n/a	87	n/a	98.85	n/a	0.01153	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	127	n/a	75.59	n/a	0.001482	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	127	n/a	0	n/a	0.001482	NP Inter(normal...
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	127	n/a	93.7	n/a	0.001482	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	127	n/a	100	n/a	0.001482	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0049	n/a	n/a	n/a	127	n/a	93.7	n/a	0.001482	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	126	n/a	46.83	n/a	0.00156	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	124	n/a	4.839	n/a	0.001729	NP Inter(normal...
Fluoride (mg/L)	n/a	0.284	n/a	n/a	n/a	135	n/a	49.63	n/a	0.000...	NP Inter(normal...
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	111	n/a	88.29	n/a	0.003368	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	117	n/a	48.72	n/a	0.002475	NP Inter(normal...
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	111	n/a	87.39	n/a	0.003368	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	126	n/a	88.89	n/a	0.00156	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	127	n/a	92.91	n/a	0.001482	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	127	n/a	94.49	n/a	0.001482	NP Inter(NDs)

FIGURE G.

WANSLEY AP GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01	0.01
Barium, Total (mg/L)	2		0.062	2	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0049	0.1	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4	10.4
Fluoride, Total (mg/L)	4		0.284	4	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015	0.001
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04	0.009
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1	0.015
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

Highlighted cells indicate background is higher than established limit.

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes	16	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.01786	0.01266	0.009	Yes	15	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-9	0.03929	0.03253	0.009	Yes	16	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.002	0.002	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.002	0.006	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.0005	0.01	No	16	75	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	16	87.5	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	16	87.5	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	16	43.75	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0019	0.00095	0.01	No	16	56.25	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.002399	0.00153	0.01	No	16	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001383	0.0007201	0.01	No	16	37.5	No	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00058	0.01	No	16	50	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00055	0.01	No	16	62.5	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	16	81.25	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.0375	0.03062	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.02034	0.01523	2	No	16	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05852	0.04661	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.05072	0.03115	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02237	0.01933	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01846	0.01315	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	16	18.75	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.00098	2	No	16	25	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.0007	2	No	16	25	No	0.01	NP (Cohens/xfrm)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	16	75	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	16	93.75	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002025	0.001431	0.004	No	16	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	16	56.25	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	16	93.75	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.00082	0.000362	0.005	No	16	18.75	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	WGWC-10	0.002394	0.001593	0.1	No	16	18.75	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	16	81.25	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	16	93.75	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001829	0.0008657	0.013	No	16	6.25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00052	0.013	No	16	37.5	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001337	0.0005416	0.013	No	16	6.25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	16	75	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01161	0.006248	0.013	No	16	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-16	0.015	0.00077	0.013	No	16	0	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.00186	0.0008579	0.013	No	16	6.25	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	16	56.25	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0028	0.0011	0.013	No	16	56.25	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	16	93.75	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4506	0.1287	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5856	0.1074	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.612	0.1183	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7925	0.4593	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8713	0.4652	10.4	No	16	6.25	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6722	0.249	10.4	No	16	6.25	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.141	0.9315	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5548	0.04796	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.441	0.1309	10.4	No	15	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.913	1.173	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3833	0.1276	10.4	No	16	6.25	No	0.01	Param.
Fluoride (mg/L)	WGWC-10	0.1841	0.1322	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.1	0.047	4	No	17	70.59	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-12	0.11	0.089	4	No	17	23.53	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	WGWC-13	0.3081	0.2371	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.048	4	No	17	82.35	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.8825	0.7903	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.18	0.084	4	No	17	11.76	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.148	0.09745	4	No	17	5.882	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3845	0.3343	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3781	0.2142	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.58	1.3	4	No	17	0	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00023	0.001	No	14	71.43	No	0.01	NP (normality)

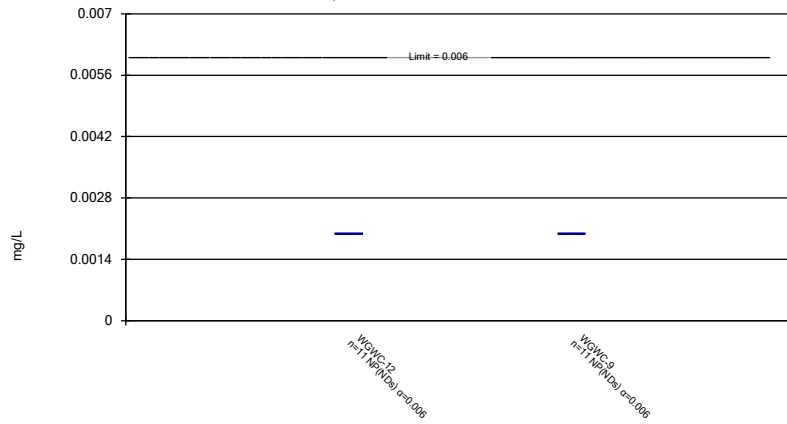
Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	WGWC-11	0.001	0.00058	0.001	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.001	No	14	50	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00017	0.001	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.001	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.001	No	14	85.71	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.001	No	14	85.71	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.001	No	14	92.86	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01678	0.008384	0.009	No	16	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	16	81.25	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007805	0.005802	0.009	No	16	6.25	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0025	0.009	No	16	75	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0018	0.009	No	16	62.5	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.006833	0.005229	0.009	No	16	12.5	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01134	0.00728	0.009	No	16	6.25	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005758	0.00464	0.009	No	16	6.25	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes	16	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.01786	0.01266	0.009	Yes	15	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-9	0.03929	0.03253	0.009	Yes	16	0	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.000085	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00011	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000086	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	16	87.5	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0011	0.015	No	16	93.75	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.015	No	16	68.75	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.015	No	16	12.5	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	16	93.75	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.00764	0.00364	0.015	No	16	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.006345	0.002894	0.015	No	16	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	16	43.75	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.007015	0.00392	0.015	No	16	0	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01218	0.00699	0.05	No	16	0	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0031	0.05	No	16	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002725	0.002073	0.05	No	16	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	16	93.75	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	16	43.75	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	16	25	No	0.01	NP (normality)

Non-Parametric Confidence Interval

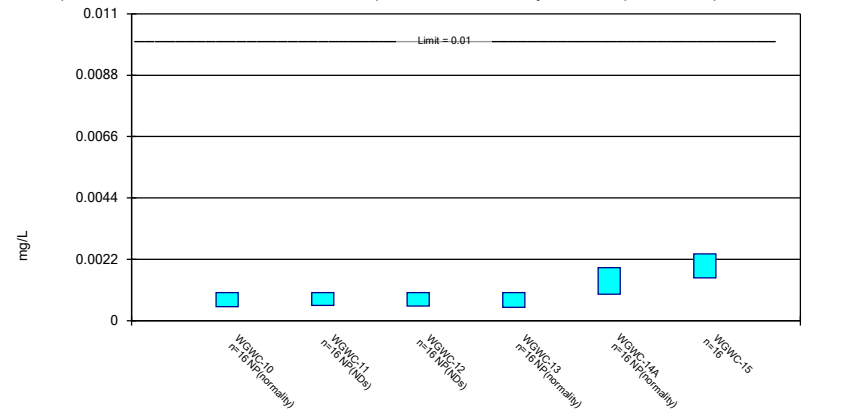
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 7/22/2020 1:48 PM View: AIV
 Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

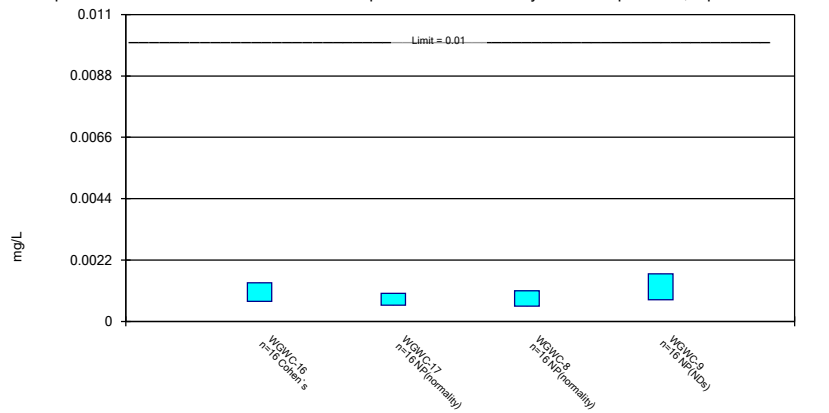
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/22/2020 1:48 PM View: AIV
 Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

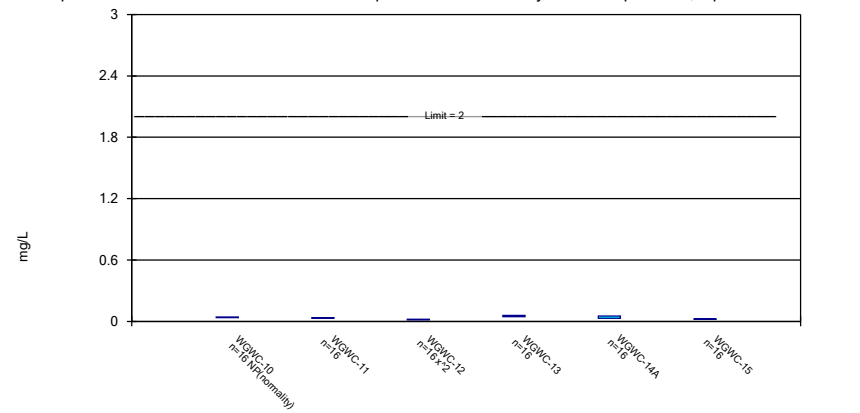
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/22/2020 1:48 PM View: AIV
 Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

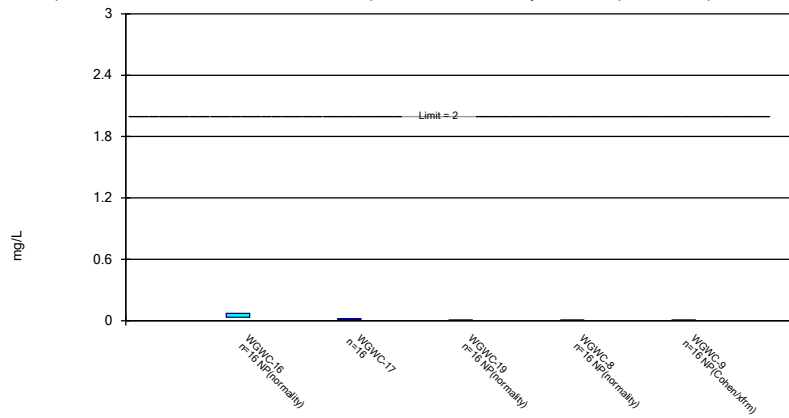
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/22/2020 1:48 PM View: AIV
 Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

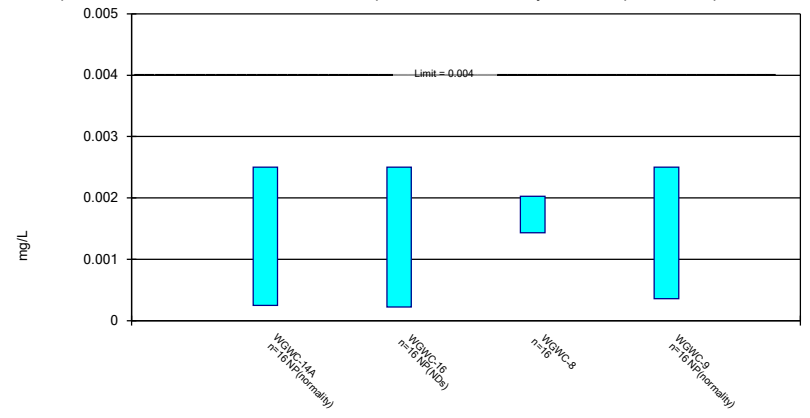
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

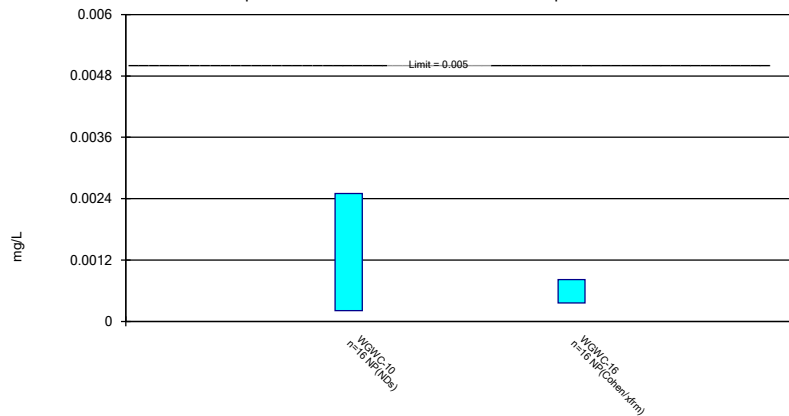
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

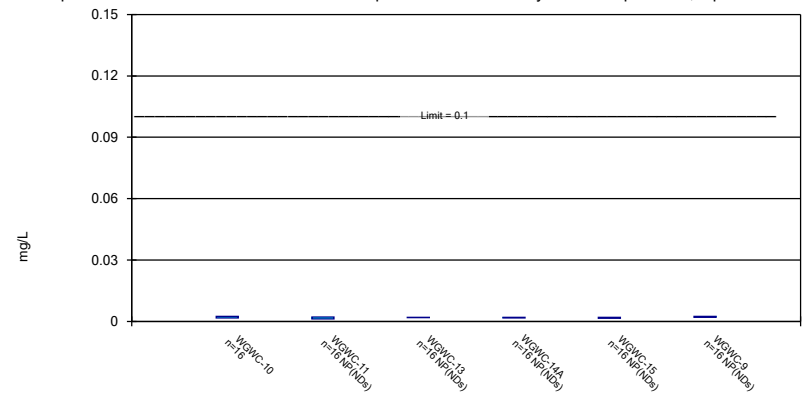
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

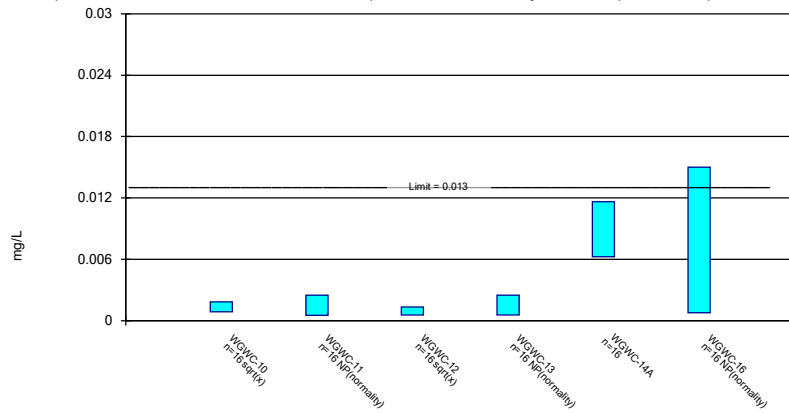
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

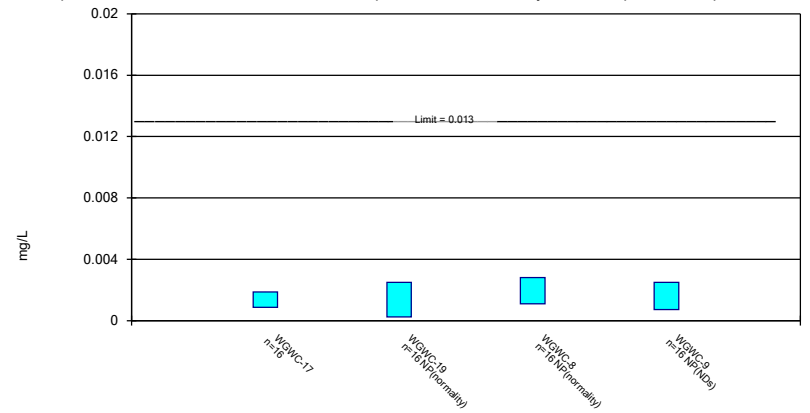
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

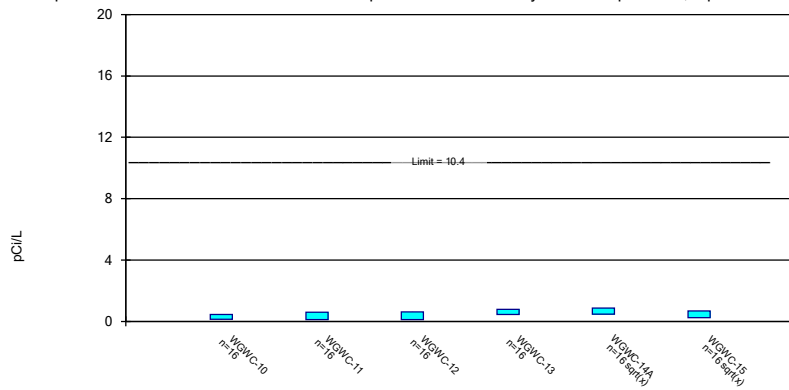
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric Confidence Interval

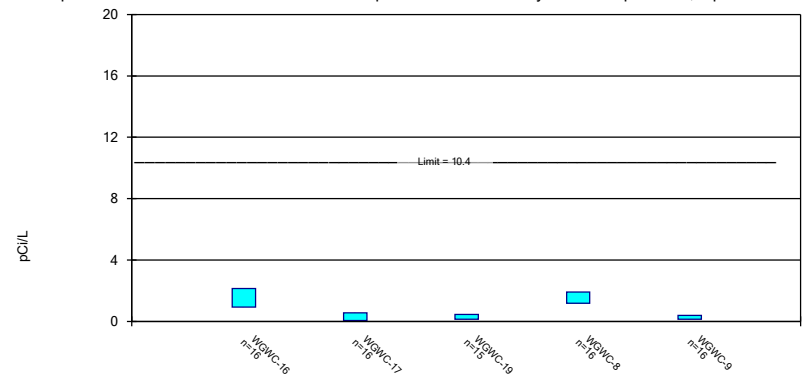
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric Confidence Interval

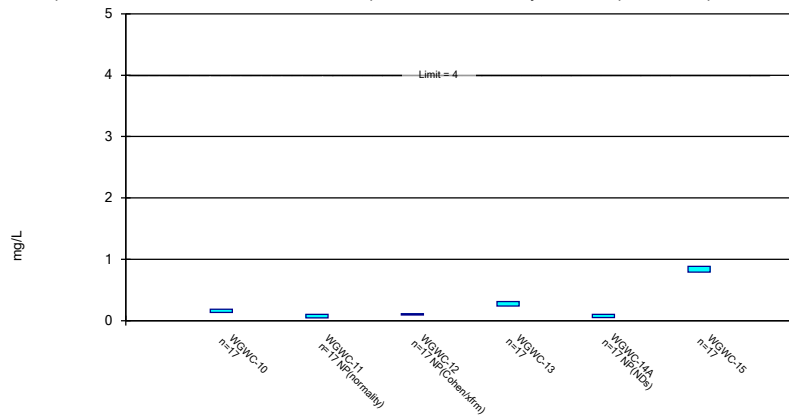
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

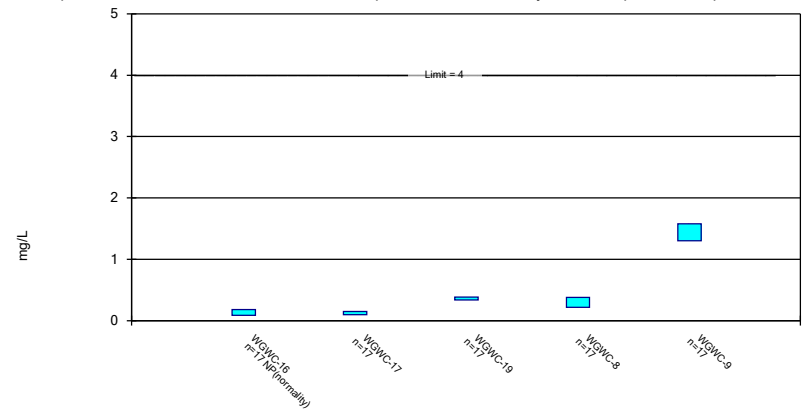
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/22/2020 1:48 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

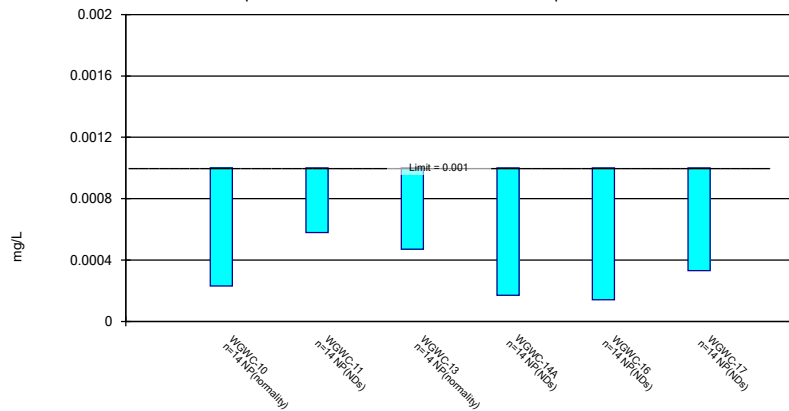
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

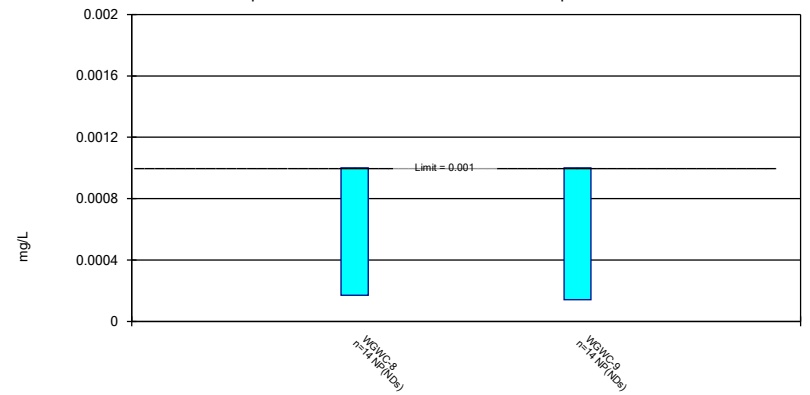
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

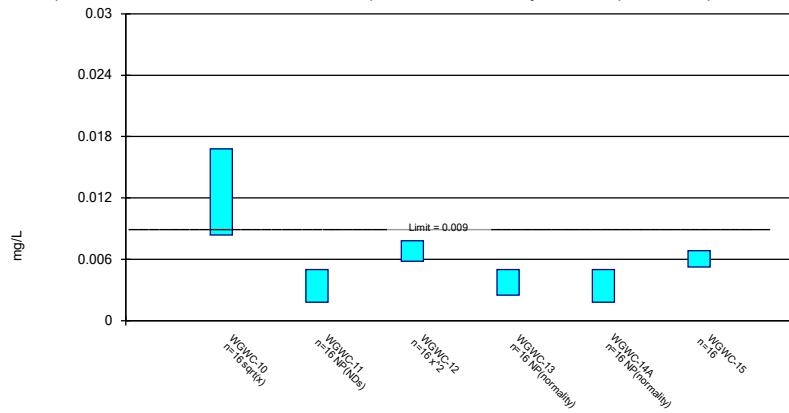
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

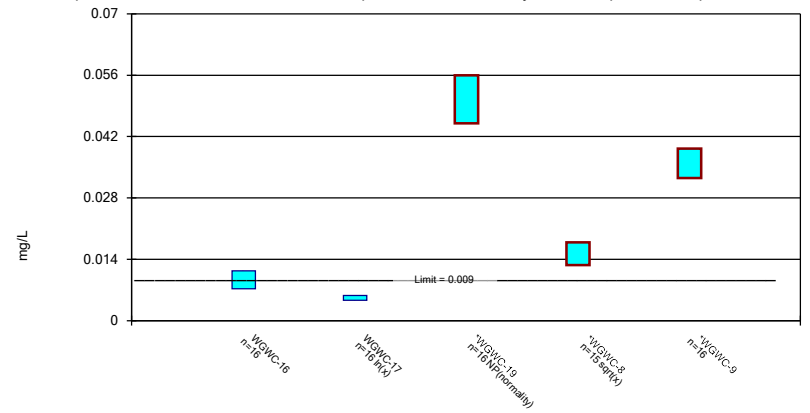
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

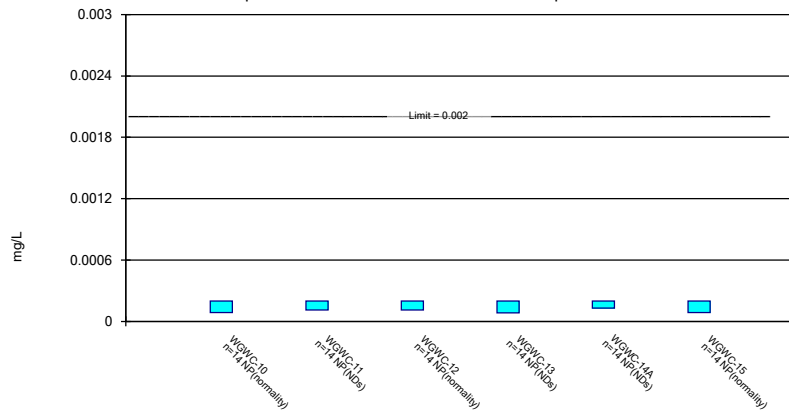
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

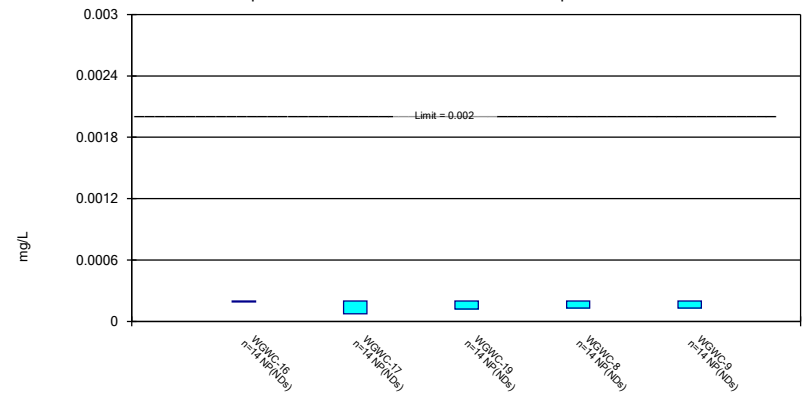
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

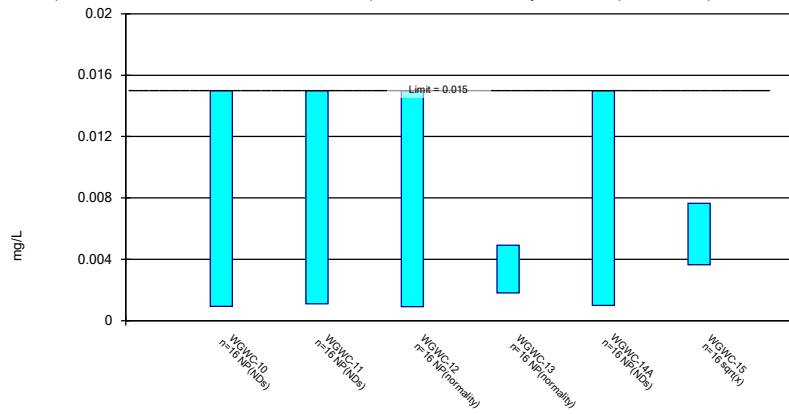
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

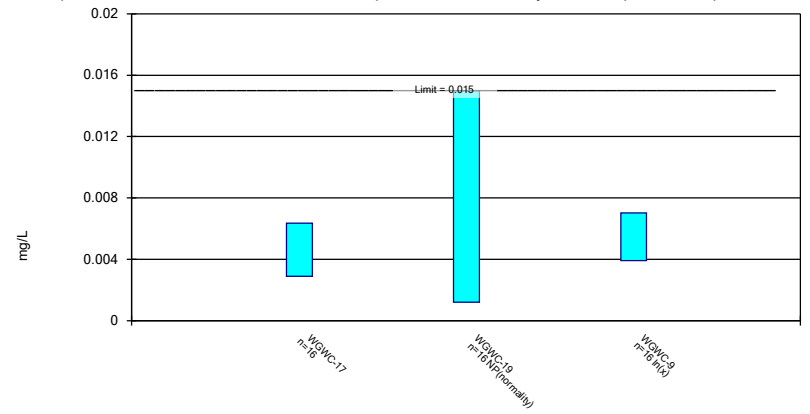
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

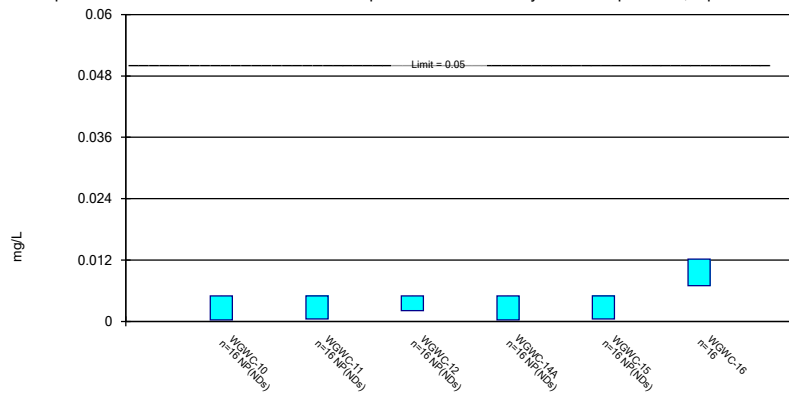
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

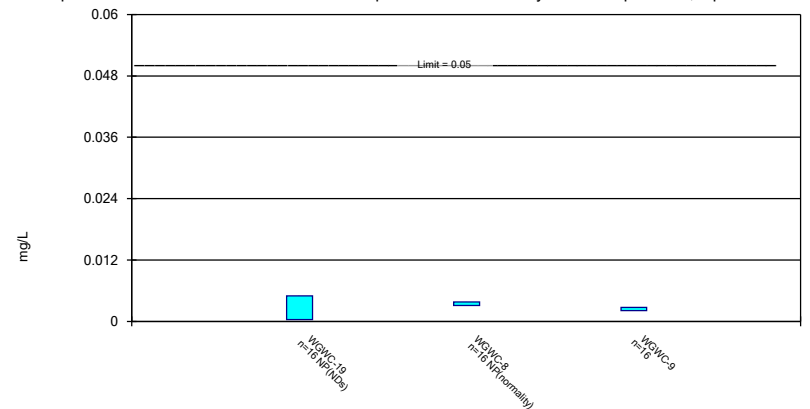
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

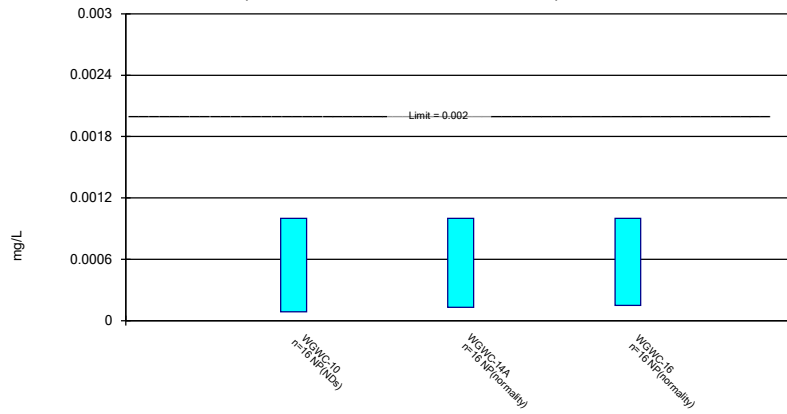
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 7/22/2020 1:49 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

FIGURE I.

Confidence Interval Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:42 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes	16	0	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.002	0.002	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.002	0.006	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.0005	0.01	No	16	75	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	16	87.5	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	16	87.5	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	16	43.75	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0019	0.00095	0.01	No	16	56.25	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.002399	0.00153	0.01	No	16	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001383	0.0007201	0.01	No	16	37.5	No	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00058	0.01	No	16	50	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00055	0.01	No	16	62.5	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	16	81.25	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.0375	0.03062	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.02034	0.01523	2	No	16	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05852	0.04661	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.05072	0.03115	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02237	0.01933	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	16	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01846	0.01315	2	No	16	0	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	16	18.75	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.00098	2	No	16	25	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.0007	2	No	16	25	No	0.01	NP (Cohens/xfrm)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	16	75	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	16	93.75	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002025	0.001431	0.004	No	16	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	16	56.25	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	16	93.75	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.00082	0.000362	0.005	No	16	18.75	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	WGWC-10	0.002394	0.001593	0.1	No	16	18.75	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	16	81.25	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	16	93.75	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	16	93.75	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001829	0.0008657	0.013	No	16	6.25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00052	0.013	No	16	37.5	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001337	0.0005416	0.013	No	16	6.25	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	16	75	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01161	0.006248	0.013	No	16	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-16	0.015	0.00077	0.013	No	16	0	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.00186	0.0008579	0.013	No	16	6.25	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	16	56.25	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0028	0.0011	0.013	No	16	56.25	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	16	93.75	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4506	0.1287	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5856	0.1074	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.612	0.1183	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7925	0.4593	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8713	0.4652	10.4	No	16	6.25	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6722	0.249	10.4	No	16	6.25	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.141	0.9315	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5548	0.04796	10.4	No	16	6.25	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.441	0.1309	10.4	No	15	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.913	1.173	10.4	No	16	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3833	0.1276	10.4	No	16	6.25	No	0.01	Param.
Fluoride (mg/L)	WGWC-10	0.1841	0.1322	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.1	0.047	4	No	17	70.59	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-12	0.11	0.089	4	No	17	23.53	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	WGWC-13	0.3081	0.2371	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.048	4	No	17	82.35	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.8825	0.7903	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.18	0.084	4	No	17	11.76	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.148	0.09745	4	No	17	5.882	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3845	0.3343	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3781	0.2142	4	No	17	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.58	1.3	4	No	17	0	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00023	0.015	No	14	71.43	No	0.01	NP (normality)

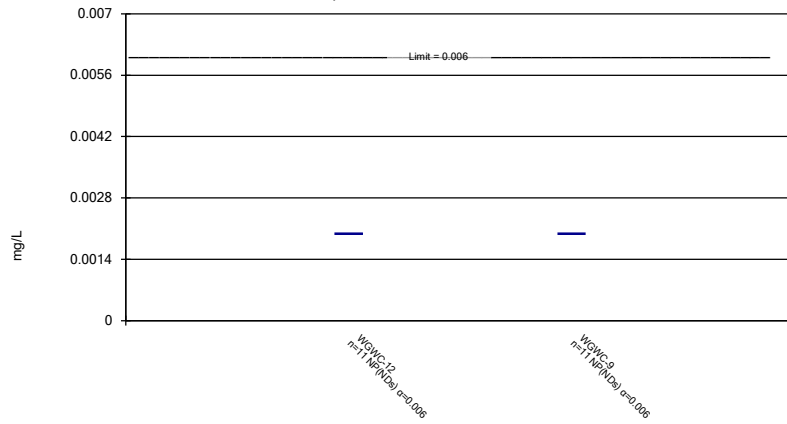
Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley AP Printed 7/22/2020, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.015	No	14	50	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00017	0.015	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	14	85.71	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	14	85.71	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	14	92.86	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01678	0.008384	0.04	No	16	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	16	81.25	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007805	0.005802	0.04	No	16	6.25	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0025	0.04	No	16	75	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0018	0.04	No	16	62.5	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.006833	0.005229	0.04	No	16	12.5	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01134	0.00728	0.04	No	16	6.25	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005758	0.00464	0.04	No	16	6.25	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes	16	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.01786	0.01266	0.04	No	15	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-9	0.03929	0.03253	0.04	No	16	0	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.000085	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00011	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000086	0.002	No	14	71.43	No	0.01	NP (normality)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	14	78.57	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	16	87.5	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0011	0.1	No	16	93.75	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.1	No	16	68.75	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.1	No	16	12.5	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	16	93.75	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.00764	0.00364	0.1	No	16	0	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.006345	0.002894	0.1	No	16	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	16	43.75	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.007015	0.00392	0.1	No	16	0	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01218	0.00699	0.05	No	16	0	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	16	93.75	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0031	0.05	No	16	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002725	0.002073	0.05	No	16	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	16	93.75	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	16	43.75	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	16	25	No	0.01	NP (normality)

Non-Parametric Confidence Interval

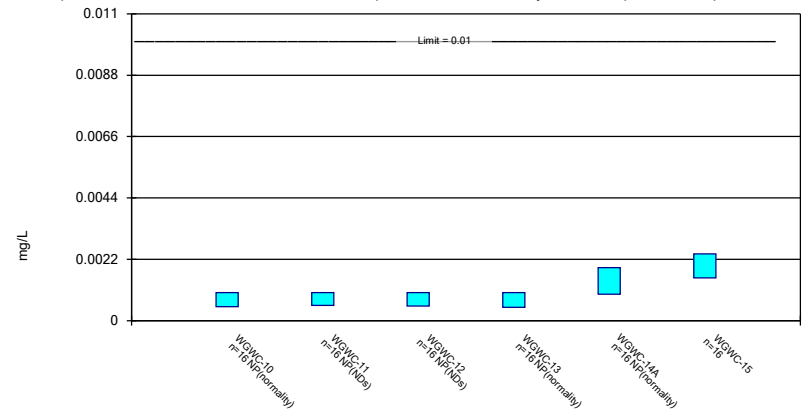
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 7/22/2020 1:38 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

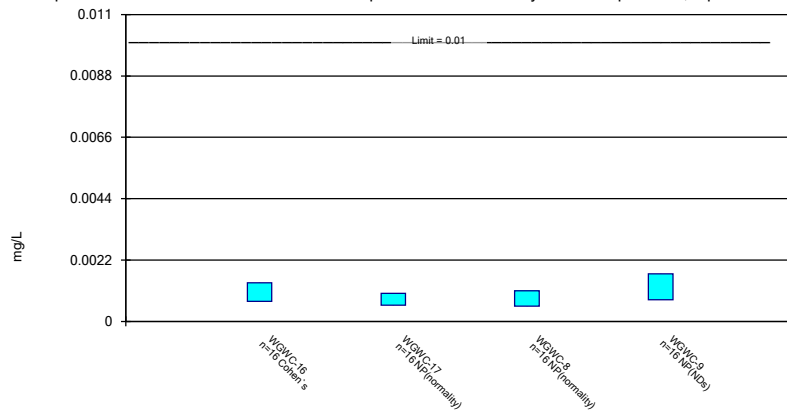
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Constituent: Arsenic Analysis Run 7/22/2020 1:38 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

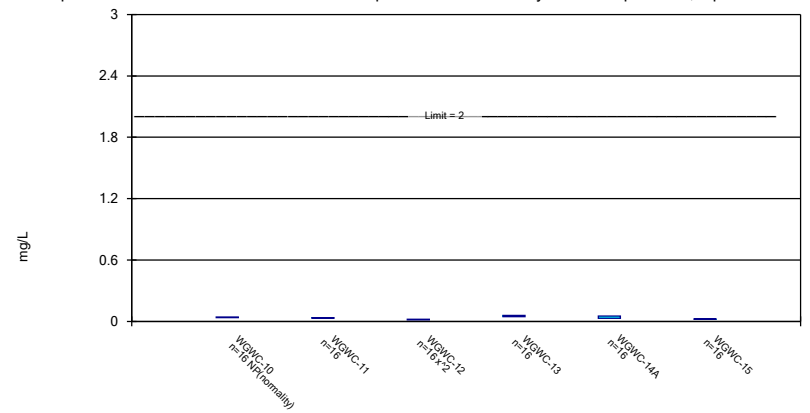
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Constituent: Arsenic Analysis Run 7/22/2020 1:38 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

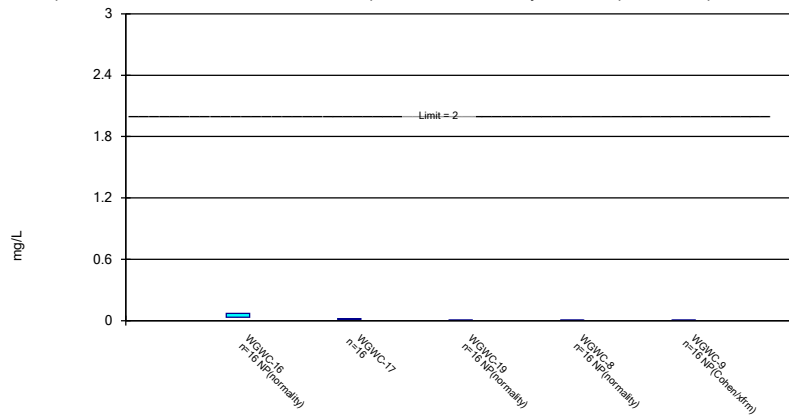
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Constituent: Barium Analysis Run 7/22/2020 1:38 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

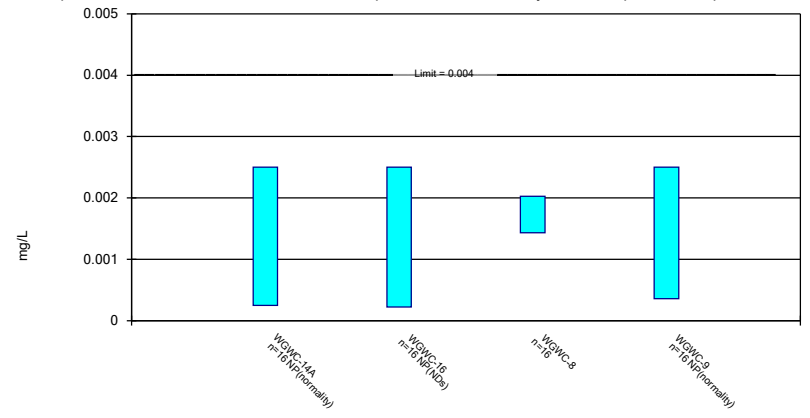
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Constituent: Barium Analysis Run 7/22/2020 1:38 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

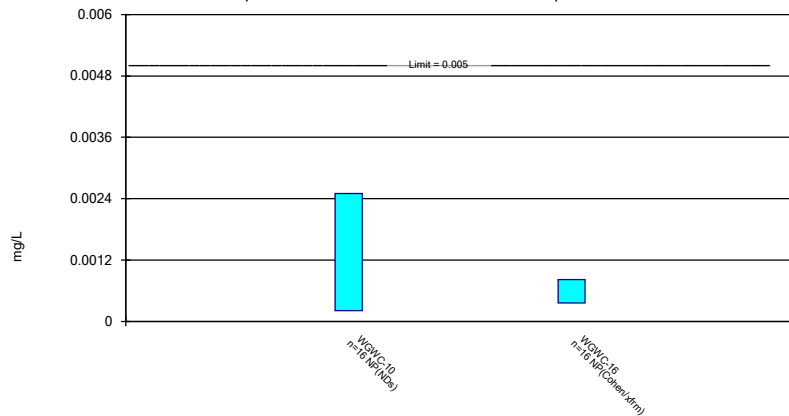
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Constituent: Beryllium Analysis Run 7/22/2020 1:38 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

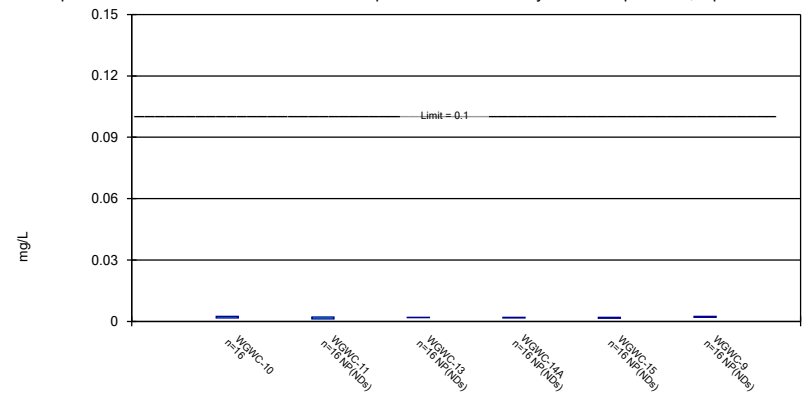
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Constituent: Cadmium Analysis Run 7/22/2020 1:38 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

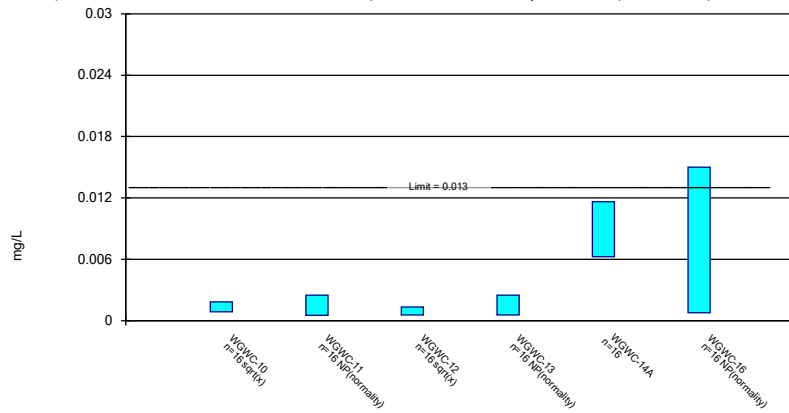
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Constituent: Chromium Analysis Run 7/22/2020 1:38 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

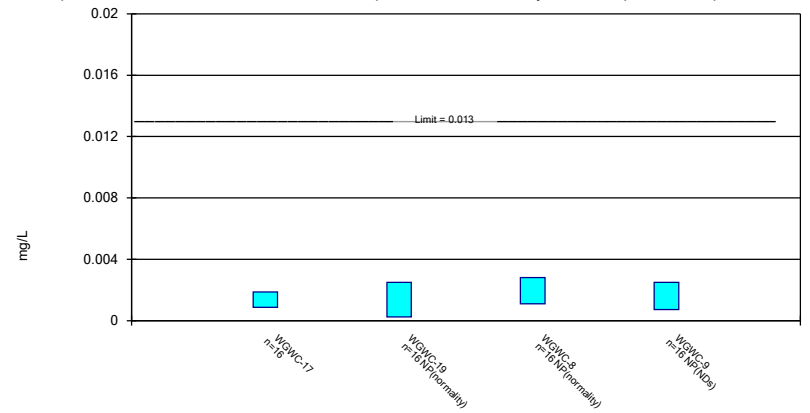
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Constituent: Cobalt Analysis Run 7/22/2020 1:38 PM View: AIV
 Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

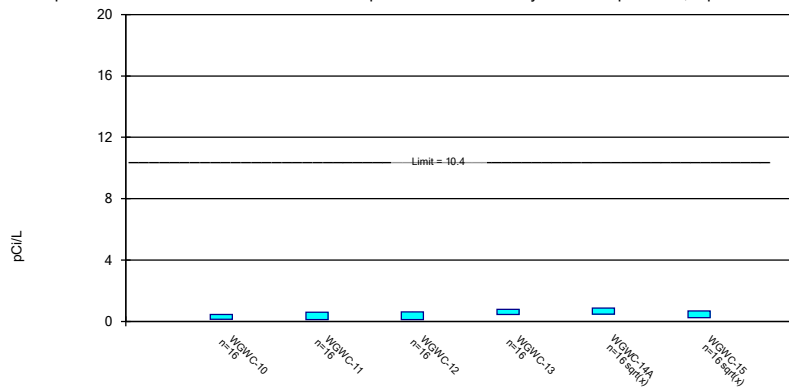
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Constituent: Cobalt Analysis Run 7/22/2020 1:38 PM View: AIV
 Plant Wansley Client: Southern Company Data: Wansley AP

Parametric Confidence Interval

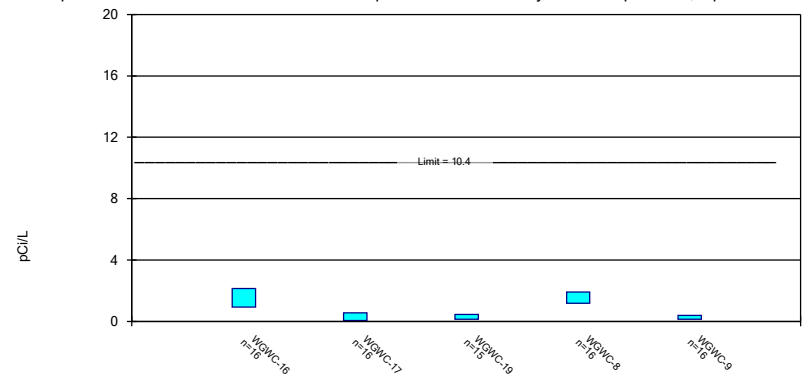
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Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 1:38 PM View: AIV
 Plant Wansley Client: Southern Company Data: Wansley AP

Parametric Confidence Interval

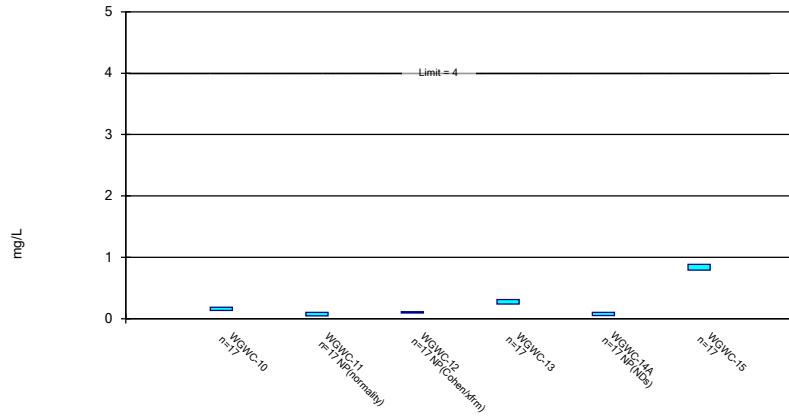
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Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2020 1:38 PM View: AIV
 Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

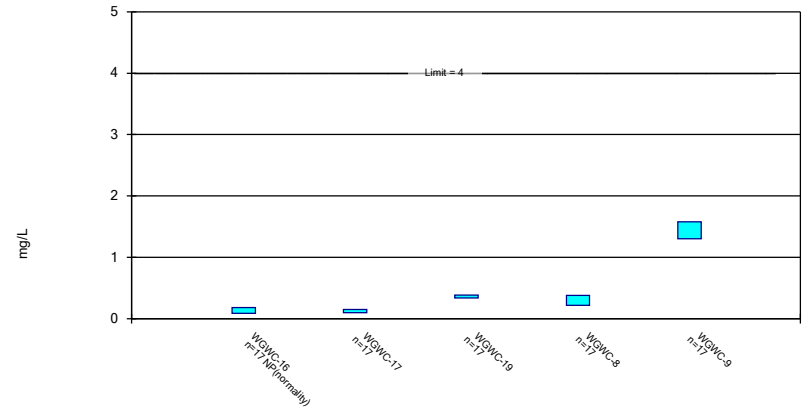
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Constituent: Fluoride Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

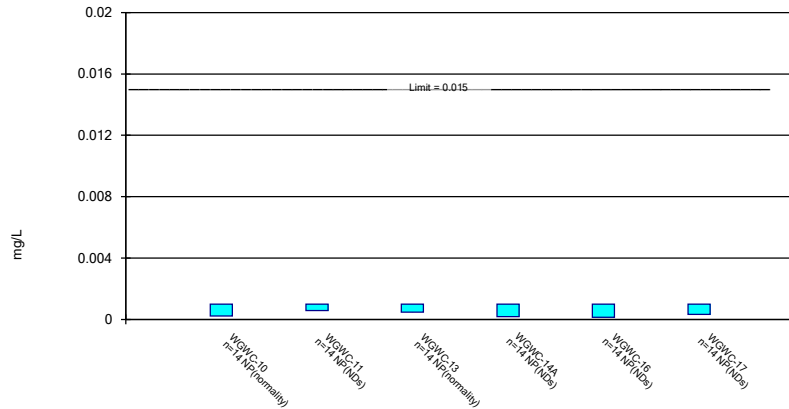
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Constituent: Fluoride Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

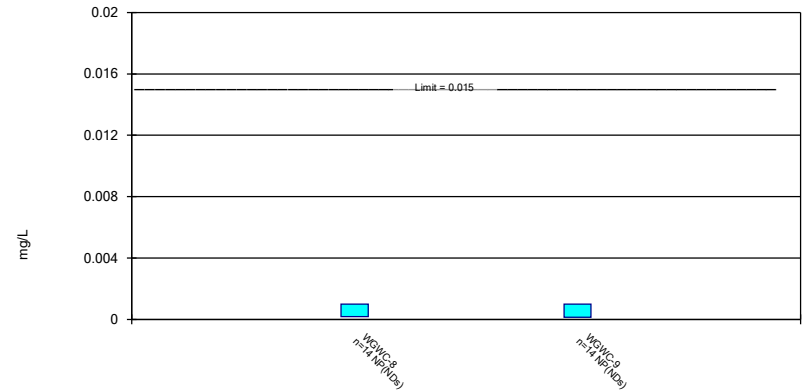
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Constituent: Lead Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

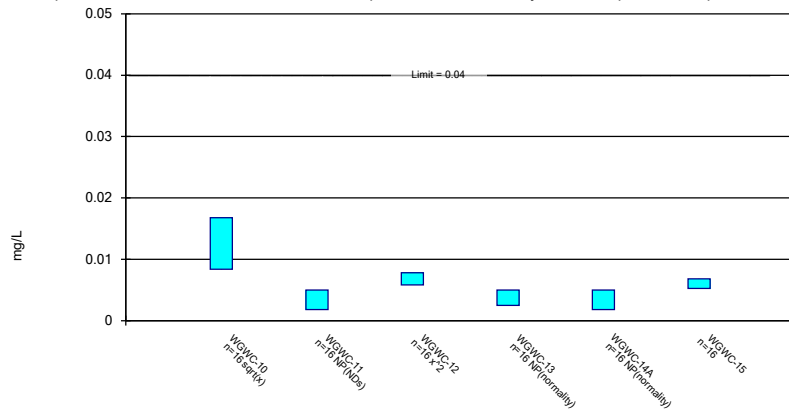
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Constituent: Lead Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

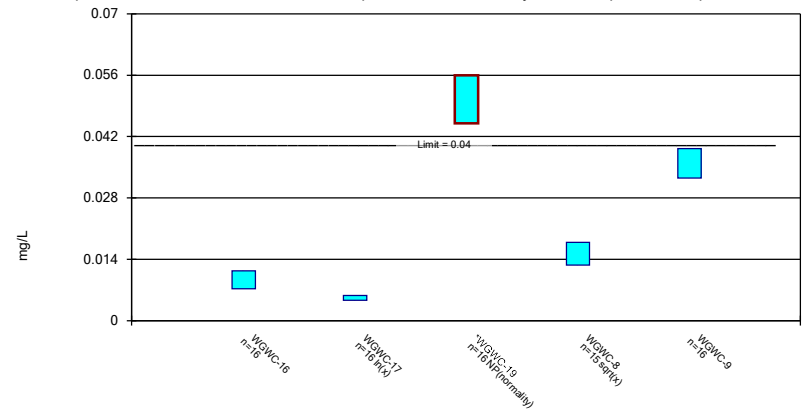
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Constituent: Lithium Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

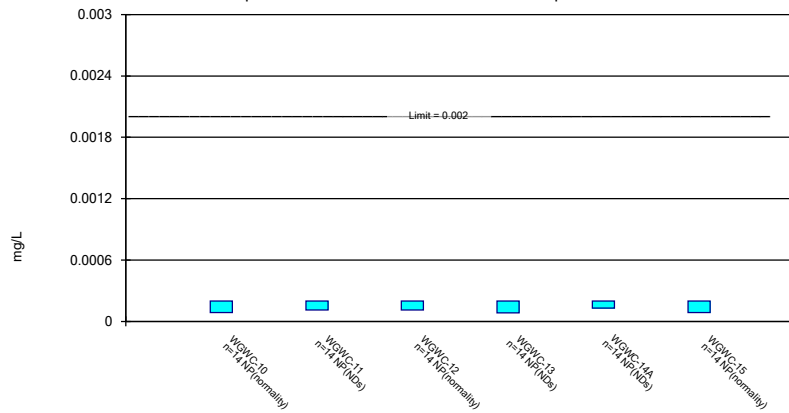
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Constituent: Lithium Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

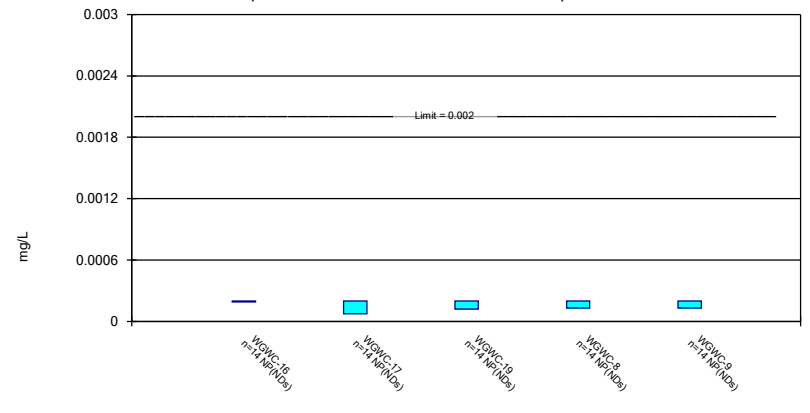
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Constituent: Mercury Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

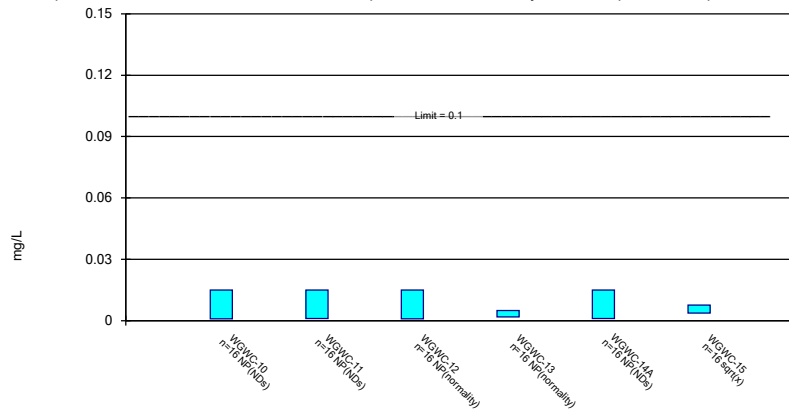
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Constituent: Mercury Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

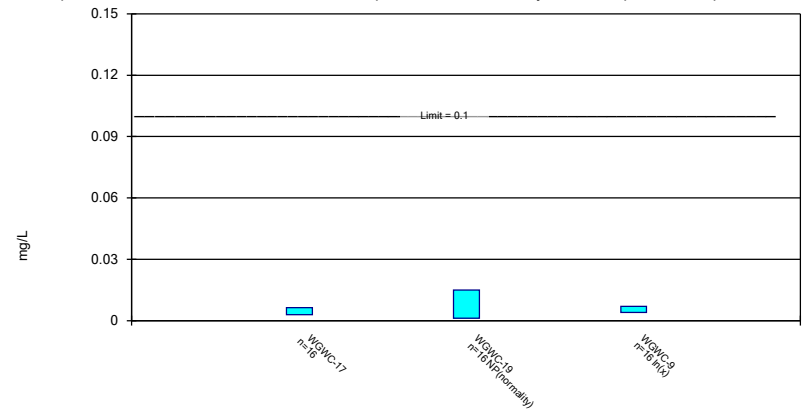
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

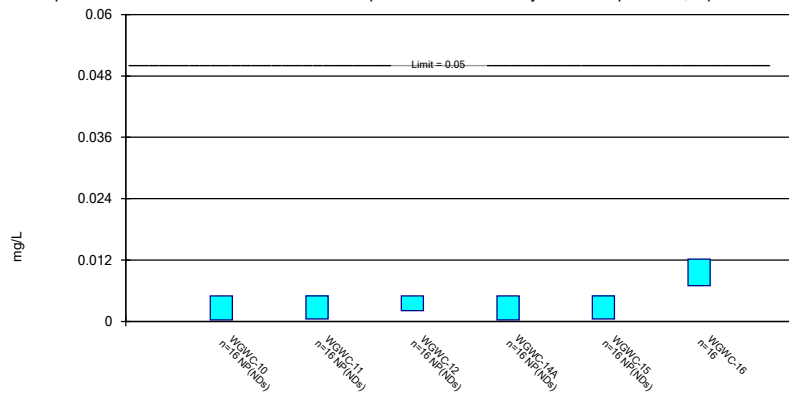
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

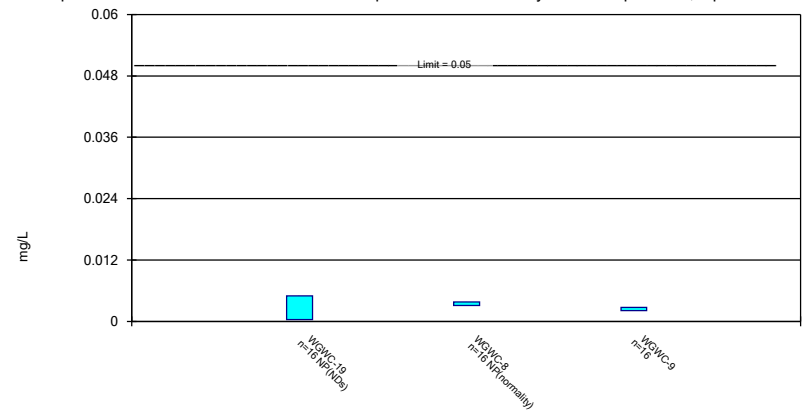
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Parametric and Non-Parametric (NP) Confidence Interval

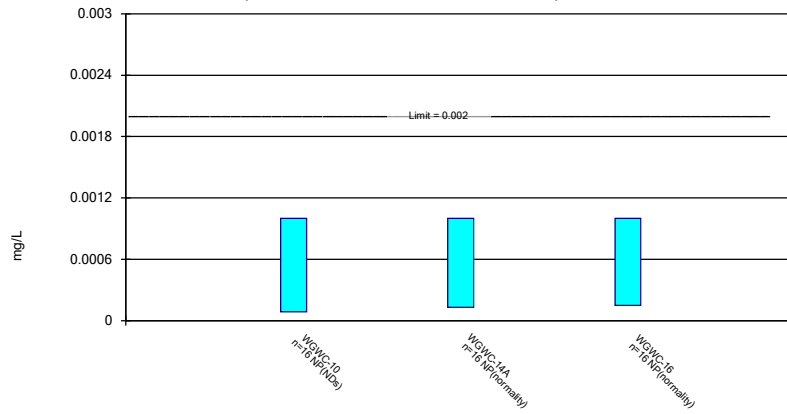
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

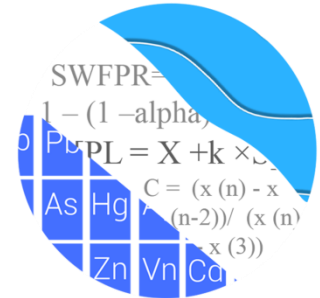


Constituent: Thallium Analysis Run 7/22/2020 1:39 PM View: AIV
Plant Wansley Client: Southern Company Data: Wansley AP

GROUNDWATER STATS CONSULTING

January 27, 2021

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
Statistical Analysis – September 2020 2nd Semi-Annual Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2020 2nd Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary of groundwater data for Georgia Power Company's Plant Wansley Ash Pond. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 and at least 8 background samples have been collected at each of the groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** WGWA-1, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, and WGWA-18
- **Downgradient wells:** WGWC-8, WGWC-9, WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, and WGWC-19

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical

methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The CCR program consists of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

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).

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. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in February 2020, antimony was not detected, and therefore, was not required to be sampled during the September 2020 event. Antimony was included in the time series and box plots, but no formal statistics were required.

For all constituents, a substitution of the most recent reporting limit is used for nondetect data. For calculating prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case. In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

During the background screening conducted by MacStat Consulting in 2017, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical

methods are recommended. Power curves were provided to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan for all constituents: 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 most recent reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the most recent 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.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as "<" the original reporting limit on the data pages.

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 analysis, in some cases, the earlier portion of data record may require deselecting prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Statistical Evaluation of Appendix III Parameters – September 2020

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged and a summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2020 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well, which is September 2020 for all downgradient wells, is compared to the background limit to determine whether there are statistically significant increases (SSIs). It was noted that the reporting limit for boron, as provided by the laboratory, has fluctuated over the years from 0.05 mg/L to 0.1 mg/L. The current reporting limit is 0.08 mg/L and, therefore, is substituted for all historical reporting limits as a result of substitution method discussed earlier.

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 resamples confirm 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 background prediction limits and exceedances 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 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 trends:

- Calcium: WGWC-8
- Chloride: WGWC-8
- Sulfate: WGWA-4 (upgradient) and WGWC-8
- TDS: WGWC-8

Decreasing trends:

- Chloride: WGWA-5 (upgradient)
- Fluoride: WGWC-9
- pH: WGWA-2 (upgradient) and WGWC-16

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using upper tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – September 2020

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% nondetects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. Although high values for lithium in upgradient wells WGWA-5 and WGWA-6 are less than the CCR-Rule Specified level, they were previously flagged as outliers to maintain statistical limits that are conservative (i.e. lower) from a regulatory perspective. A complete list of flagged outliers follows this report (Figure C).

First, interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2020 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

As described in 40 CFR §257.95(h) (1-3), the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

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

Following Georgia EPD Rule requirements and the Federal CCR requirements, Federal and State GWPS were established for statistical comparison of Appendix IV constituents for the September 2020 sample event (Figure G). Note that a GWPS is established for antimony; however, since there were no recent detections above the reporting limit, no statistical comparison with confidence intervals was required.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well. The Sanitas software was used to calculate the upper tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. For the State requirements, confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-

.10(6)(a). For Federal requirements, confidence intervals were compared to the GWPS prepared according to the CCR Rule. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparisons against GWPS for both Federal and States requirements, follow this letter (Figures H and I, respectively).

For the federal confidence intervals, the following exceedance was noted:

- Lithium: WGWC-19

For the state confidence intervals, the following exceedances were noted:

- Lithium: WGWC-8, WGWC-9, and WGWC-19

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Wansley Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects

Analysis Run 1/6/2021 9:43 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony (mg/L)

WGWC-10, WGWC-11, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-19, WGWC-8

Arsenic (mg/L)

WGWC-19

Beryllium (mg/L)

WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19

Cadmium (mg/L)

WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-17, WGWC-19, WGWC-8, WGWC-9

Chromium (mg/L)

WGWC-12, WGWC-16, WGWC-17, WGWC-19, WGWC-8

Cobalt (mg/L)

WGWC-15

Lead (mg/L)

WGWC-12, WGWC-15, WGWC-19

Molybdenum (mg/L)

WGWC-16, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17

Thallium (mg/L)

WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19, WGWC-8, WGWC-9

Appendix III - Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq	N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	WGWC-16	0.08	n/a	9/23/2020	1.5	Yes	119	n/a	n/a	99.16	n/a	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	9/22/2020	2.5	Yes	119	n/a	n/a	99.16	n/a	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	9/23/2020	0.68	Yes	119	n/a	n/a	99.16	n/a	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-8	58	n/a	9/22/2020	81	Yes	119	n/a	n/a	0	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	9/23/2020	58	Yes	119	n/a	n/a	0	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	9/22/2020	100	Yes	119	n/a	n/a	0	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	9/23/2020	0.63	Yes	143	n/a	n/a	49.65	n/a	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	9/23/2020	0.82	Yes	143	n/a	n/a	49.65	n/a	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-16	7.96	5.09	9/23/2020	5.05	Yes	142	n/a	n/a	0	n/a	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	9/23/2020	85	Yes	119	n/a	n/a	22.69	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	9/22/2020	200	Yes	119	n/a	n/a	22.69	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	9/23/2020	54	Yes	119	n/a	n/a	22.69	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	190	n/a	9/23/2020	250	Yes	119	n/a	n/a	8.403	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	190	n/a	9/22/2020	600	Yes	119	n/a	n/a	8.403	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:30 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	WGWC-10	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-11	0.08	n/a	9/24/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-12	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-13	0.08	n/a	9/24/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-14A	0.08	n/a	9/24/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-15	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-16	0.08	n/a	9/23/2020	1.5	Yes	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-17	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-19	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	9/22/2020	2.5	Yes	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	9/23/2020	0.68	Yes	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-10	58	n/a	9/23/2020	7.7	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-11	58	n/a	9/24/2020	5.2	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-12	58	n/a	9/23/2020	13	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-13	58	n/a	9/24/2020	1.4	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-14A	58	n/a	9/24/2020	0.99	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-15	58	n/a	9/23/2020	32	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-16	58	n/a	9/23/2020	43	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-17	58	n/a	9/23/2020	5.9	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-19	58	n/a	9/23/2020	13	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-8	58	n/a	9/22/2020	81	Yes	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-9	58	n/a	9/23/2020	10	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-10	6.05	n/a	9/23/2020	1.3	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-11	6.05	n/a	9/24/2020	1	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-12	6.05	n/a	9/23/2020	2.8	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-13	6.05	n/a	9/24/2020	1.6	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-14A	6.05	n/a	9/24/2020	3.1	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-15	6.05	n/a	9/23/2020	1.5	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	9/23/2020	58	Yes	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-17	6.05	n/a	9/23/2020	1.2	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-19	6.05	n/a	9/23/2020	2.6	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	9/22/2020	100	Yes	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-9	6.05	n/a	9/23/2020	2.4	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-10	0.284	n/a	9/23/2020	0.09J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-11	0.284	n/a	9/24/2020	0.18	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-12	0.284	n/a	9/23/2020	0.064J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-13	0.284	n/a	9/24/2020	0.1ND	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-14A	0.284	n/a	9/24/2020	0.028J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	9/23/2020	0.63	Yes	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-16	0.284	n/a	9/23/2020	0.049J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-17	0.284	n/a	9/23/2020	0.05J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	n/a	9/23/2020	0.25	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-8	0.284	n/a	9/22/2020	0.14	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	9/23/2020	0.82	Yes	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-10	7.96	5.09	9/23/2020	6.14	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-11	7.96	5.09	9/24/2020	5.5	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-12	7.96	5.09	9/23/2020	6.42	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-13	7.96	5.09	9/24/2020	6.29	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-14A	7.96	5.09	9/24/2020	5.16	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-15	7.96	5.09	9/23/2020	7.35	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-16	7.96	5.09	9/23/2020	5.05	Yes	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-17	7.96	5.09	9/23/2020	5.89	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-19	7.96	5.09	9/23/2020	6.59	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-8	7.96	5.09	9/22/2020	5.17	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-9	7.96	5.09	9/23/2020	5.8	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-10	21	n/a	9/23/2020	1.8	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:30 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	WGWC-11	21	n/a	9/24/2020	2.7	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-12	21	n/a	9/23/2020	12	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-13	21	n/a	9/24/2020	0.63J	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-14A	21	n/a	9/24/2020	1.2	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-15	21	n/a	9/23/2020	21	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	9/23/2020	85	Yes	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-17	21	n/a	9/23/2020	4.4	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-19	21	n/a	9/23/2020	3	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	9/22/2020	200	Yes	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	9/23/2020	54	Yes	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-10	190	n/a	9/23/2020	50	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-11	190	n/a	9/24/2020	60	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-12	190	n/a	9/23/2020	90	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-13	190	n/a	9/24/2020	21	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-14A	190	n/a	9/24/2020	24	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-15	190	n/a	9/23/2020	150	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	190	n/a	9/23/2020	250	Yes	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-17	190	n/a	9/23/2020	60	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-19	190	n/a	9/23/2020	94	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	190	n/a	9/22/2020	600	Yes	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-9	190	n/a	9/23/2020	150	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:35 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	WGWC-8	12.48	83	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-5 (bg)	-0.1417	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	20.51	93	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.1083	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-2 (bg)	-0.06212	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWC-16	-0.1634	-128	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-4 (bg)	0.8303	68	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	12.63	71	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	67.41	88	53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:35 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	WGWA-1 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-18 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-2 (bg)	0	-12	-53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-3 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-4 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-5 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-6 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-7 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-16	-0.7036	-36	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-8	0.193	50	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-9	0.03698	37	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-1 (bg)	0.0517	38	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-18 (bg)	-0.9964	-25	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-2 (bg)	-0.5093	-24	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-3 (bg)	0	3	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-4 (bg)	0	-20	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-5 (bg)	-0.1022	-19	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-6 (bg)	0	2	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-7 (bg)	-0.09047	-22	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-8	12.48	83	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-1 (bg)	0.08459	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-18 (bg)	-0.1377	-20	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-2 (bg)	0	15	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-3 (bg)	0	-25	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-4 (bg)	-0.0272	-45	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-5 (bg)	-0.1417	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-6 (bg)	0	-10	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-7 (bg)	0	-10	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-16	-32.02	-27	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	20.51	93	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-1 (bg)	0	-16	-68	No	18	77.78	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-18 (bg)	-0.007356	-35	-68	No	18	22.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-2 (bg)	-0.01003	-54	-68	No	18	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-3 (bg)	0	-27	-68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-4 (bg)	-0.00869	-63	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-5 (bg)	0	29	63	No	17	88.24	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-6 (bg)	-0.008941	-57	-68	No	18	11.11	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-7 (bg)	0	-18	-68	No	18	77.78	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-15	-0.04873	-67	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.1083	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-1 (bg)	-0.04386	-45	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-18 (bg)	-0.04192	-5	-63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-2 (bg)	-0.06212	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-3 (bg)	-0.01158	-13	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-4 (bg)	-0.007256	-10	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-5 (bg)	-0.03392	-20	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-6 (bg)	0.02612	16	63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-7 (bg)	-0.05214	-38	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWC-16	-0.1634	-128	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-1 (bg)	0	-23	-53	No	15	86.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-18 (bg)	-0.8343	-25	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-2 (bg)	-0.02732	-12	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-3 (bg)	0.01035	7	53	No	15	6.667	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-4 (bg)	0.8303	68	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-5 (bg)	0.07633	16	48	No	14	21.43	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:35 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	WGWA-6 (bg)	0	-2	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-7 (bg)	0	-22	-53	No	15	66.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-16	-67.59	-14	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	12.63	71	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-9	1.711	42	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-1 (bg)	1.921	16	53	No	15	26.67	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-18 (bg)	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-2 (bg)	0.6073	3	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-3 (bg)	2.485	17	53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-4 (bg)	1.172	15	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-5 (bg)	0	0	48	No	14	14.29	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-6 (bg)	3.921	22	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-7 (bg)	0	3	53	No	15	20	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-16	-175.9	-11	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	67.41	88	53	Yes	15	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:28 AM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0022	n/a	n/a	95	n/a	n/a	98.95	n/a	n/a	0.007651	NP Inter(NDs)
Arsenic (mg/L)	0.0014	n/a	n/a	135	n/a	n/a	77.04	n/a	n/a	0.0009833	NP Inter(NDs)
Barium (mg/L)	0.062	n/a	n/a	135	n/a	n/a	0	n/a	n/a	0.0009833	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	135	n/a	n/a	94.07	n/a	n/a	0.0009833	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	135	n/a	n/a	100	n/a	n/a	0.0009833	NP Inter(NDs)
Chromium (mg/L)	0.0049	n/a	n/a	135	n/a	n/a	94.07	n/a	n/a	0.0009833	NP Inter(NDs)
Cobalt (mg/L)	0.013	n/a	n/a	134	n/a	n/a	46.27	n/a	n/a	0.001035	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	10.4	n/a	n/a	132	n/a	n/a	0	n/a	n/a	0.001147	NP Inter(normality)
Fluoride (mg/L)	0.284	n/a	n/a	143	n/a	n/a	49.65	n/a	n/a	0.0006523	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	119	n/a	n/a	89.08	n/a	n/a	0.002234	NP Inter(NDs)
Lithium (mg/L)	0.009	n/a	n/a	125	n/a	n/a	48.8	n/a	n/a	0.001642	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	119	n/a	n/a	88.24	n/a	n/a	0.002234	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	134	n/a	n/a	88.06	n/a	n/a	0.001035	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	135	n/a	n/a	93.33	n/a	n/a	0.0009833	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	135	n/a	n/a	94.81	n/a	n/a	0.0009833	NP Inter(NDs)

WANSLEY AP GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01	0.01
Barium, Total (mg/L)	2		0.062	2	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0049	0.1	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4	10.4
Fluoride, Total (mg/L)	4		0.284	4	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015	0.001
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04	0.009
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1	0.015
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

Federal Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:49 AM

<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>
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes 17	0.051	0.007331	0	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	17	0.0008894	0.000232	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	17	0.0009129	0.0001943	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	17	0.0009412	0.0001662	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	17	0.0008182	0.0003125	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0017	0.00095	0.01	No	17	0.001285	0.0006269	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002339	0.00143	0.01	No	17	0.001885	0.0007251	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001132	0.0006062	0.01	No	17	0.001186	0.000353	41.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	17	0.00085	0.0001827	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00071	0.01	No	17	0.0009265	0.0002748	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	17	0.0009971	0.0002263	82.35	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	17	0.03948	0.00651	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04	0.03	2	No	17	0.03565	0.008299	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-12	0.02011	0.01528	2	No	17	0.01732	0.004491	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05768	0.04573	2	No	17	0.05171	0.009538	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04971	0.03134	2	No	17	0.04053	0.01466	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02291	0.01951	2	No	17	0.02121	0.002709	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	17	0.05109	0.01664	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01812	0.01304	2	No	17	0.01558	0.004053	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	17	0.002545	0.001883	23.53	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.001	2	No	17	0.002722	0.001717	29.41	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00076	2	No	17	0.00239	0.001823	29.41	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	17	0.001836	0.00106	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	17	0.002366	0.000553	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002075	0.001472	0.004	No	17	0.001774	0.0004805	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	17	0.001508	0.001086	52.94	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	17	0.002365	0.0005554	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0025	0.00037	0.005	No	17	0.0009795	0.0008847	23.53	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002131	0.001397	0.1	No	17	0.001982	0.0005982	17.65	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	17	0.001906	0.0002861	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	17	0.001988	0.00004851	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	17	0.001982	0.00007276	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	17	0.001971	0.0001213	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	17	0.002029	0.0001213	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001754	0.0008402	0.013	No	17	0.001355	0.0008154	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	17	0.00163	0.0009355	41.18	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001275	0.0005259	0.013	No	17	0.0009576	0.0006725	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	17	0.001894	0.0009765	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.01125	0.005977	0.013	No	17	0.008612	0.004205	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-16	0.015	0.00077	0.013	No	17	0.007761	0.00628	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.001804	0.0008596	0.013	No	17	0.001332	0.0007536	5.882	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	17	0.001489	0.00111	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-8	0.0028	0.00092	0.013	No	17	0.002078	0.0008693	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	17	0.002396	0.0004293	94.12	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4659	0.1594	10.4	No	17	0.3127	0.2446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6546	0.1387	10.4	No	17	0.3967	0.4117	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6212	0.1291	10.4	No	17	0.3752	0.3927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.8156	0.4825	10.4	No	17	0.6491	0.2658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.866	0.5061	10.4	No	17	0.7028	0.3259	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6598	0.2673	10.4	No	17	0.494	0.3733	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.058	0.8666	10.4	No	17	1.462	0.9507	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5569	0.06753	10.4	No	17	0.3122	0.3905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.471	0.126	10.4	No	17	0.3259	0.3114	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.902	1.209	10.4	No	17	1.555	0.5528	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3671	0.1214	10.4	No	17	0.2443	0.1961	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	WGWC-10	0.1805	0.1282	4	No 18	0.1543	0.04325	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.18	0.047	4	No 18	0.08867	0.03457	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.09839	0.07499	4	No 18	0.09261	0.02161	22.22	Kaplan-Meier	x^2	0.01	Param.
Fluoride (mg/L)	WGWC-13	0.3044	0.2216	4	No 18	0.263	0.06839	5.556	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.048	4	No 18	0.08617	0.02686	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.8772	0.7727	4	No 18	0.8249	0.08641	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.18	0.08	4	No 18	0.1713	0.1929	11.11	None	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.1445	0.09284	4	No 18	0.1187	0.04269	5.556	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3816	0.3251	4	No 18	0.3533	0.04665	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3674	0.2076	4	No 18	0.2875	0.1321	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.563	1.248	4	No 18	1.406	0.261	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.015	No 15	0.0007427	0.0003812	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No 15	0.00093	0.0001889	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.015	No 15	0.000778	0.0002525	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-14A	0.001	0.00018	0.015	No 15	0.00089	0.0002903	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No 15	0.0009427	0.0002221	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No 15	0.000902	0.0002598	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No 15	0.0008307	0.0003506	80	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No 15	0.0009427	0.0002221	93.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01611	0.008063	0.04	No 17	0.01257	0.007135	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No 17	0.004371	0.001407	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007752	0.00589	0.04	No 17	0.006659	0.001801	5.882	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.04	No 17	0.004429	0.001125	76.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No 17	0.004094	0.00138	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.006859	0.005329	0.04	No 17	0.006094	0.001221	11.76	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01108	0.007147	0.04	No 17	0.009112	0.003135	5.882	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005807	0.004711	0.04	No 17	0.005259	0.0008747	5.882	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes 17	0.051	0.007331	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.018	0.013	0.04	No 17	0.01768	0.01083	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03892	0.03255	0.04	No 17	0.03574	0.005081	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.000085	0.002	No 15	0.000172	0.00004926	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No 15	0.0001861	0.00003697	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00011	0.002	No 15	0.0001786	0.00004172	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No 15	0.0001843	0.00004152	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No 15	0.0001953	0.00001807	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000086	0.002	No 15	0.000169	0.00005338	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No 15	0.0001853	0.00003796	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No 15	0.0001916	0.00003253	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No 15	0.0001864	0.00003684	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No 15	0.0001812	0.00004016	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No 15	0.0001953	0.00001807	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No 17	0.01334	0.004676	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No 17	0.0134	0.004518	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.1	No 17	0.01105	0.006369	70.59	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.1	No 17	0.004565	0.005042	17.65	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No 17	0.01418	0.003395	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.007348	0.003585	0.1	No 17	0.0057	0.003489	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.006141	0.002871	0.1	No 17	0.004506	0.002609	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No 17	0.006947	0.006946	41.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.006736	0.003775	0.1	No 17	0.005678	0.003554	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No 17	0.004724	0.001137	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No 17	0.004735	0.001094	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No 17	0.004829	0.0007034	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No 17	0.004724	0.00114	94.12	None	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:49 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	17	0.004735	0.001091	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01182	0.006555	0.05	No	17	0.009185	0.004197	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	17	0.004727	0.001125	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.00388	0.003034	0.05	No	17	0.003481	0.0006945	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002742	0.002115	0.05	No	17	0.002428	0.0005001	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	17	0.0009462	0.0002219	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	17	0.0005512	0.000437	47.06	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	17	0.0004153	0.000391	29.41	None	No	0.01	NP (normality)

State Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes 17	0.051	0.007331	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.018	0.013	0.009	Yes 17	0.01768	0.01083	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03892	0.03255	0.009	Yes 17	0.03574	0.005081	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	17	0.0008894	0.000232	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	17	0.0009129	0.0001943	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	17	0.0009412	0.0001662	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	17	0.0008182	0.0003125	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0017	0.00095	0.01	No	17	0.001285	0.0006269	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002339	0.00143	0.01	No	17	0.001885	0.0007251	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001132	0.0006062	0.01	No	17	0.001186	0.000353	41.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	17	0.00085	0.0001827	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00071	0.01	No	17	0.0009265	0.0002748	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	17	0.0009971	0.0002263	82.35	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	17	0.03948	0.00651	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04	0.03	2	No	17	0.03565	0.008299	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-12	0.02011	0.01528	2	No	17	0.01732	0.004491	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05768	0.04573	2	No	17	0.05171	0.009538	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04971	0.03134	2	No	17	0.04053	0.01466	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02291	0.01951	2	No	17	0.02121	0.002709	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	17	0.05109	0.01664	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01812	0.01304	2	No	17	0.01558	0.004053	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	17	0.002545	0.001883	23.53	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.001	2	No	17	0.002722	0.001717	29.41	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00076	2	No	17	0.00239	0.001823	29.41	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	17	0.001836	0.00106	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	17	0.002366	0.000553	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002075	0.001472	0.004	No	17	0.001774	0.0004805	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	17	0.001508	0.001086	52.94	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	17	0.002365	0.0005554	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0025	0.00037	0.005	No	17	0.0009795	0.0008847	23.53	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002131	0.001397	0.1	No	17	0.001982	0.0005982	17.65	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	17	0.001906	0.0002861	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	17	0.001988	0.00004851	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	17	0.001982	0.00007276	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	17	0.001971	0.0001213	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	17	0.002029	0.0001213	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001754	0.0008402	0.013	No	17	0.001355	0.0008154	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	17	0.00163	0.0009355	41.18	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001275	0.0005259	0.013	No	17	0.0009576	0.0006725	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	17	0.001894	0.0009765	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.01125	0.005977	0.013	No	17	0.008612	0.004205	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-16	0.015	0.00077	0.013	No	17	0.007761	0.00628	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.001804	0.0008596	0.013	No	17	0.001332	0.0007536	5.882	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	17	0.001489	0.00111	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-8	0.0028	0.00092	0.013	No	17	0.002078	0.0008693	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	17	0.002396	0.0004293	94.12	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4659	0.1594	10.4	No	17	0.3127	0.2446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6546	0.1387	10.4	No	17	0.3967	0.4117	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6212	0.1291	10.4	No	17	0.3752	0.3927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.8156	0.4825	10.4	No	17	0.6491	0.2658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.866	0.5061	10.4	No	17	0.7028	0.3259	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6598	0.2673	10.4	No	17	0.494	0.3733	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.058	0.8666	10.4	No	17	1.462	0.9507	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5569	0.06753	10.4	No	17	0.3122	0.3905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.471	0.126	10.4	No	17	0.3259	0.3114	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.902	1.209	10.4	No	17	1.555	0.5528	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3671	0.1214	10.4	No	17	0.2443	0.1961	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	WGWC-10	0.1805	0.1282	4	No	18	0.1543	0.04325	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.18	0.047	4	No	18	0.08867	0.03457	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.09839	0.07499	4	No	18	0.09261	0.02161	22.22	Kaplan-Meier	x^2	0.01	Param.
Fluoride (mg/L)	WGWC-13	0.3044	0.2216	4	No	18	0.263	0.06839	5.556	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.048	4	No	18	0.08617	0.02686	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.8772	0.7727	4	No	18	0.8249	0.08641	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.18	0.08	4	No	18	0.1713	0.1929	11.11	None	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.1445	0.09284	4	No	18	0.1187	0.04269	5.556	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3816	0.3251	4	No	18	0.3533	0.04665	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3674	0.2076	4	No	18	0.2875	0.1321	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.563	1.248	4	No	18	1.406	0.261	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.001	No	15	0.0007427	0.0003812	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.001	No	15	0.00093	0.0001889	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.001	No	15	0.000778	0.0002525	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-14A	0.001	0.00018	0.001	No	15	0.00089	0.0002903	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.001	No	15	0.0009427	0.0002221	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.001	No	15	0.000902	0.0002598	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.001	No	15	0.0008307	0.0003506	80	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.001	No	15	0.0009427	0.0002221	93.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01611	0.008063	0.009	No	17	0.01257	0.007135	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	17	0.004371	0.001407	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007752	0.00589	0.009	No	17	0.006659	0.001801	5.882	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.009	No	17	0.004429	0.001125	76.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.009	No	17	0.004094	0.00138	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.006859	0.005329	0.009	No	17	0.006094	0.001221	11.76	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01108	0.007147	0.009	No	17	0.009112	0.003135	5.882	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005807	0.004711	0.009	No	17	0.005259	0.0008747	5.882	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes	17	0.051	0.007331	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.018	0.013	0.009	Yes	17	0.01768	0.01083	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03892	0.03255	0.009	Yes	17	0.03574	0.005081	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.000085	0.002	No	15	0.000172	0.00004926	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	15	0.0001861	0.00003697	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00011	0.002	No	15	0.0001786	0.00004172	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	15	0.0001843	0.00004152	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	15	0.0001953	0.00001807	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000086	0.002	No	15	0.000169	0.00005338	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	15	0.0001853	0.00003796	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	15	0.0001916	0.00003253	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	15	0.0001864	0.00003684	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	15	0.0001812	0.00004016	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	15	0.0001953	0.00001807	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	17	0.01334	0.004676	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.015	No	17	0.0134	0.004518	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.015	No	17	0.01105	0.006369	70.59	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.015	No	17	0.004565	0.005042	17.65	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	17	0.01418	0.003395	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.007348	0.003585	0.015	No	17	0.0057	0.003489	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.006141	0.002871	0.015	No	17	0.004506	0.002609	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	17	0.006947	0.006946	41.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.006736	0.003775	0.015	No	17	0.005678	0.003554	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	17	0.004724	0.001137	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	17	0.004735	0.001094	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	17	0.004829	0.0007034	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	17	0.004724	0.00114	94.12	None	No	0.01	NP (NDs)

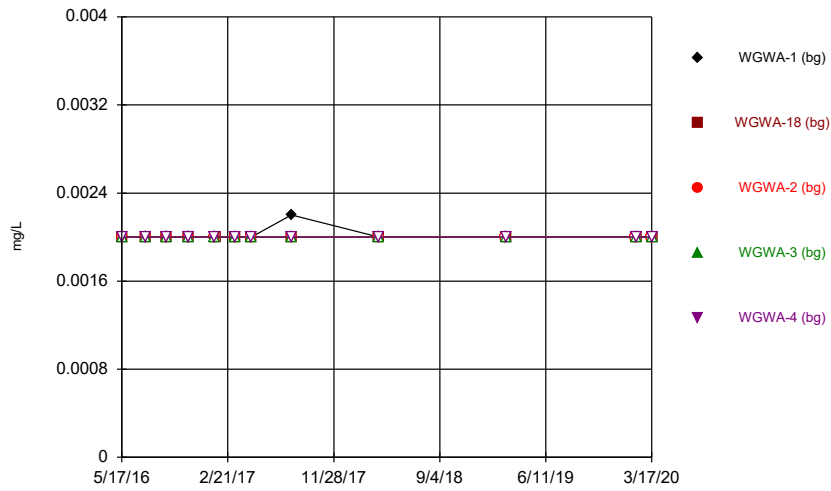
State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	17	0.004735	0.001091	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01182	0.006555	0.05	No	17	0.009185	0.004197	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	17	0.004727	0.001125	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.00388	0.003034	0.05	No	17	0.003481	0.0006945	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002742	0.002115	0.05	No	17	0.002428	0.0005001	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	17	0.0009462	0.0002219	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	17	0.0005512	0.000437	47.06	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	17	0.0004153	0.000391	29.41	None	No	0.01	NP (normality)

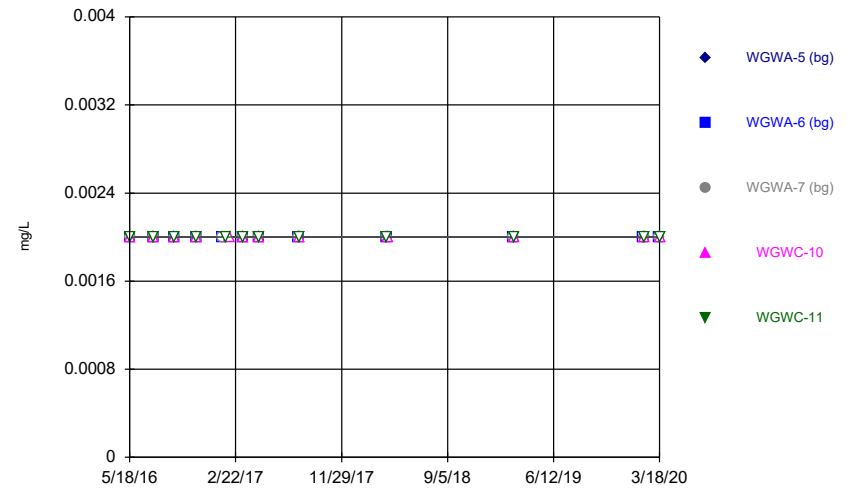
FIGURE A.

Time Series



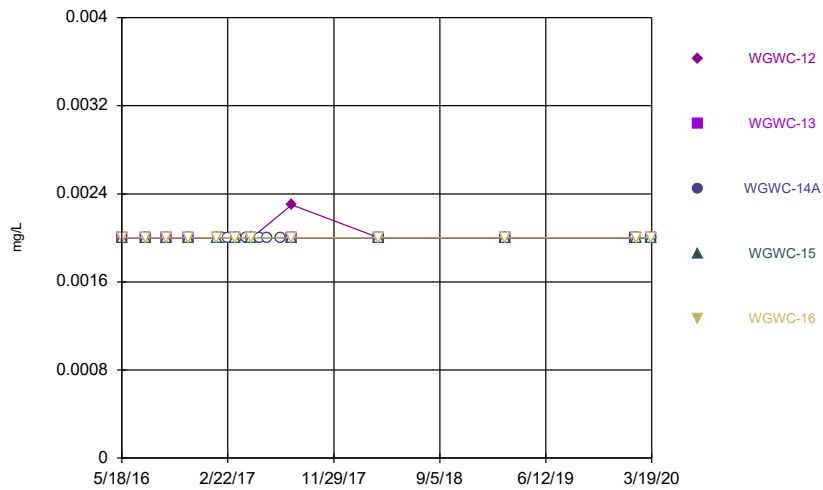
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



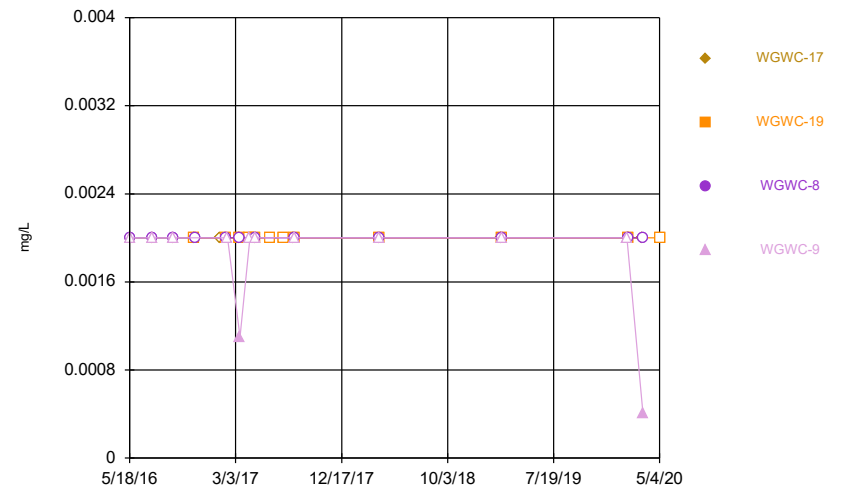
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



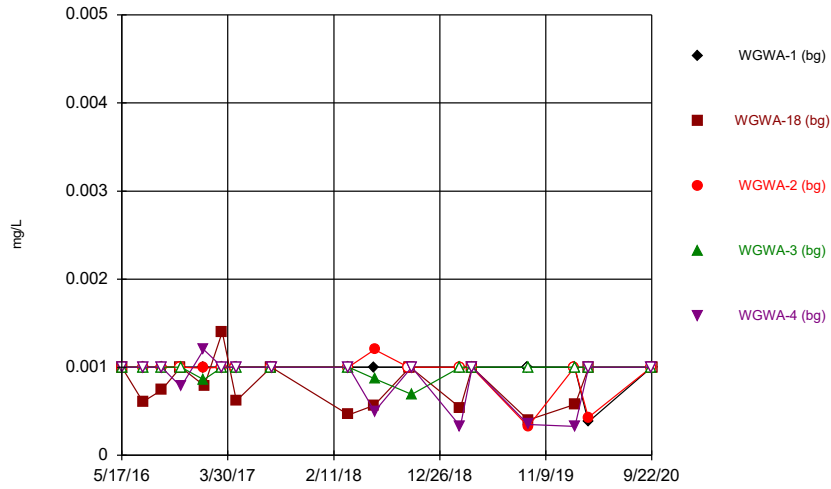
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



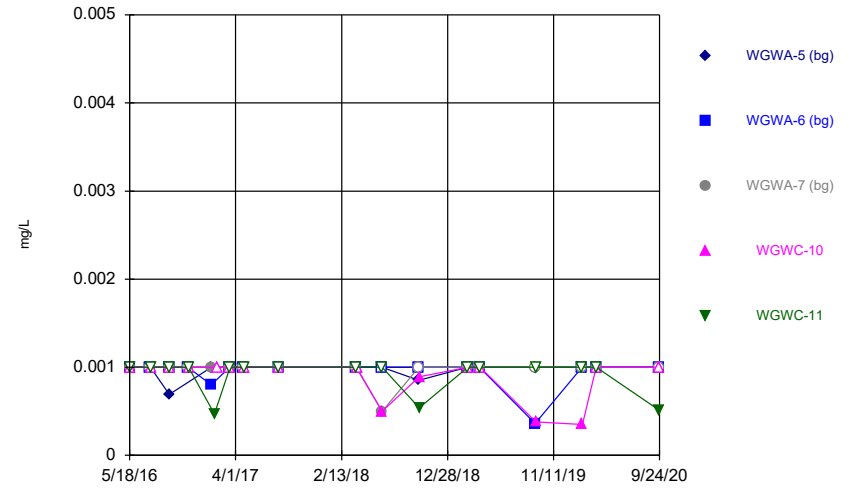
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



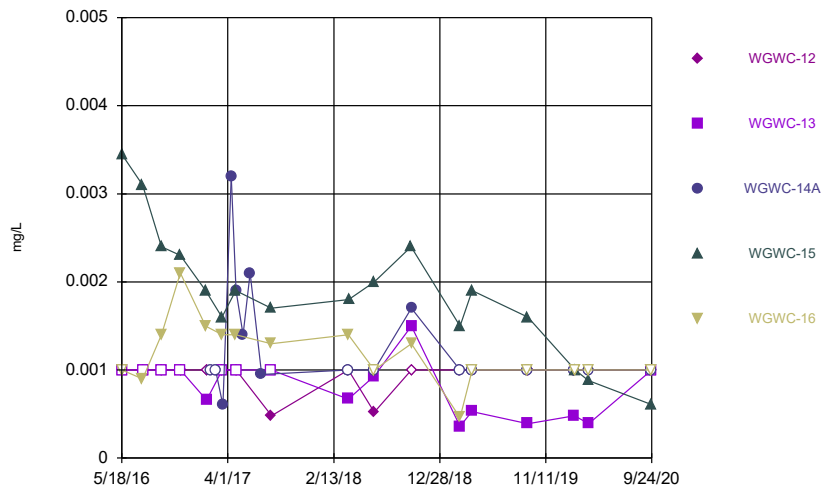
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



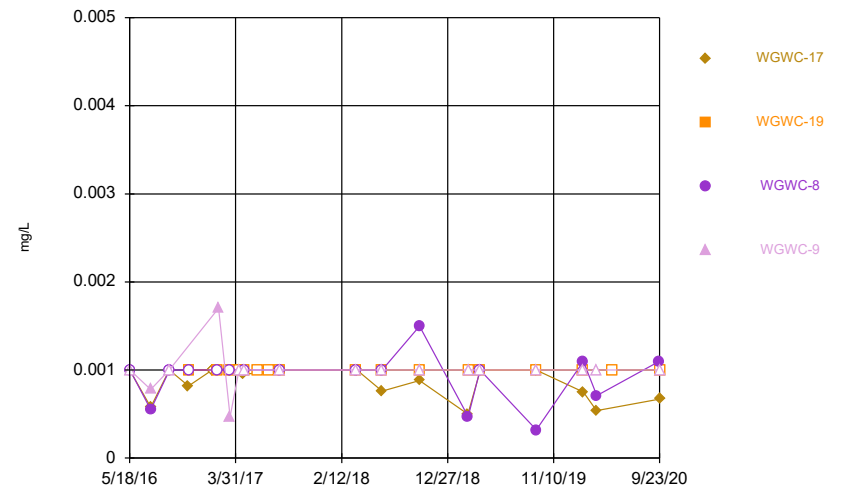
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



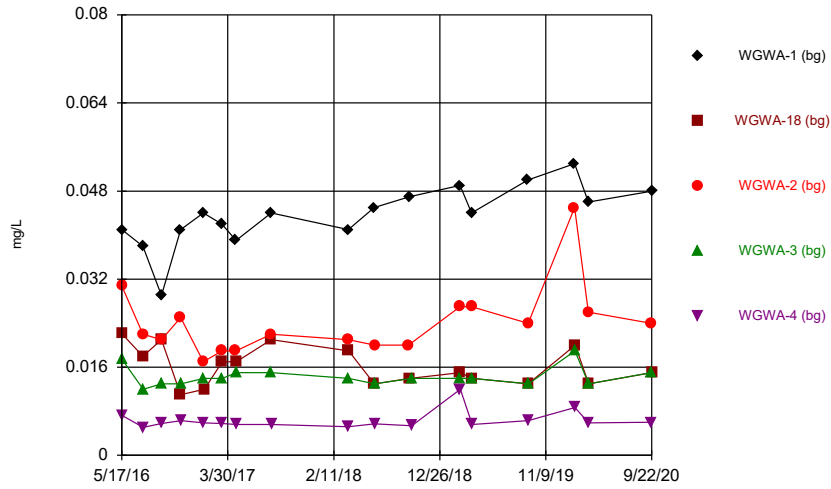
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



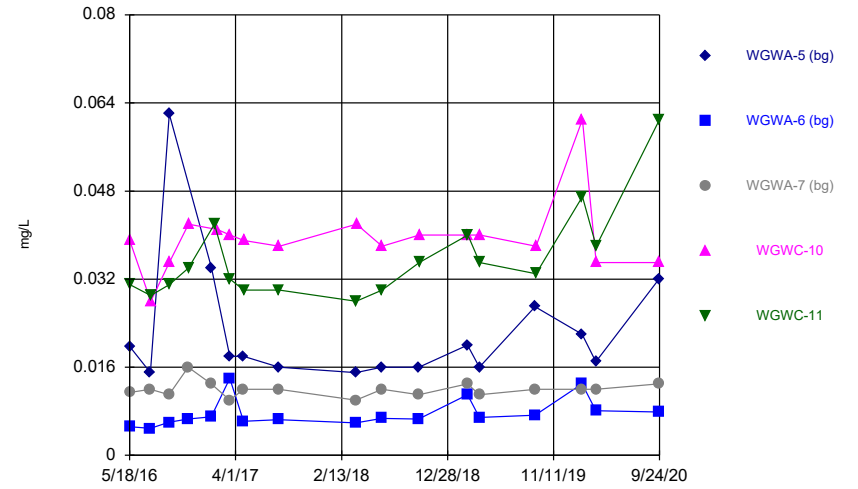
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



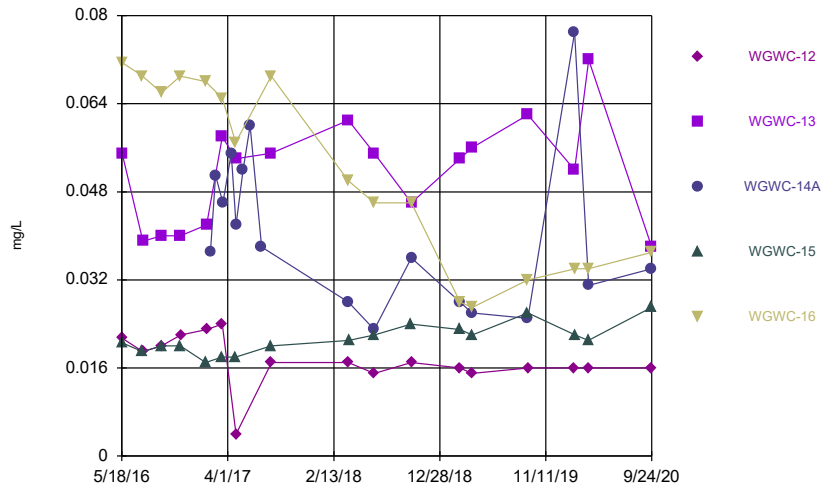
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Time Series



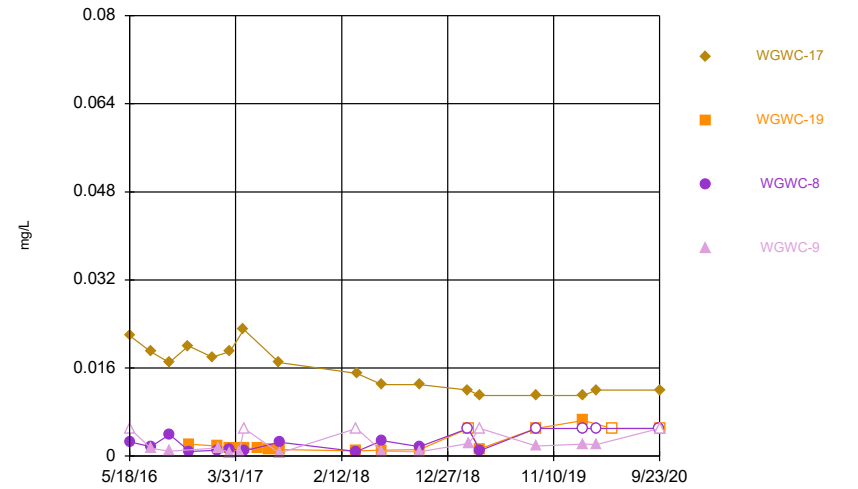
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



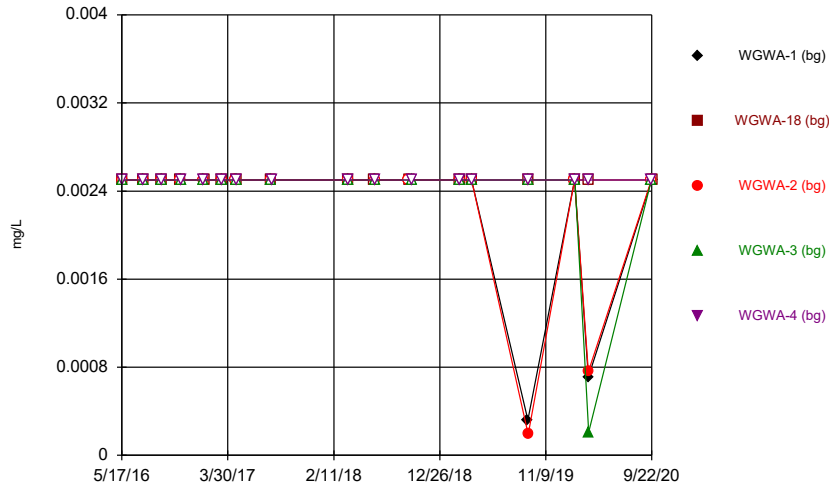
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Time Series



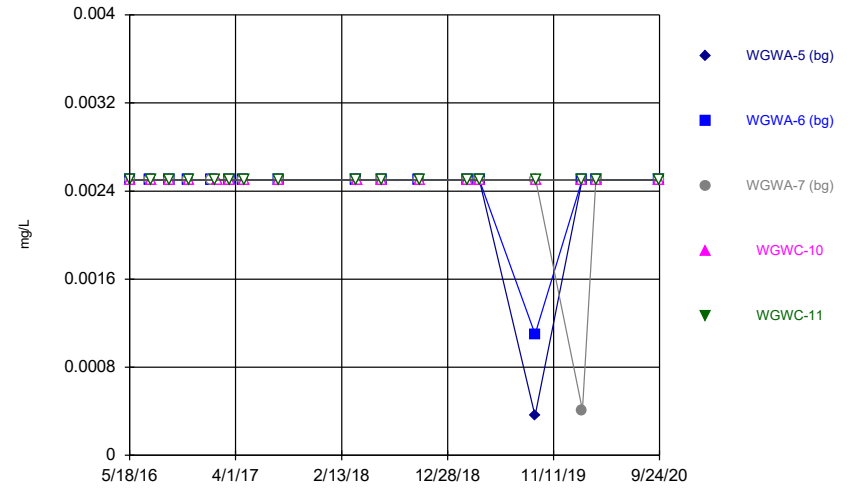
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



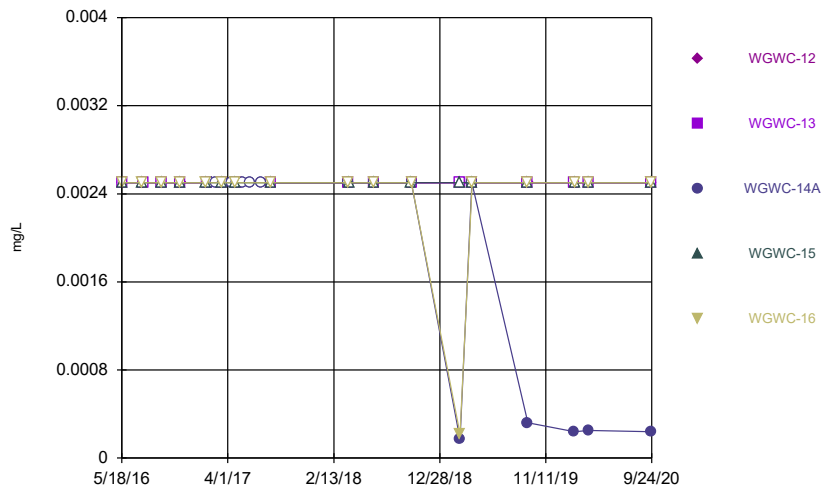
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



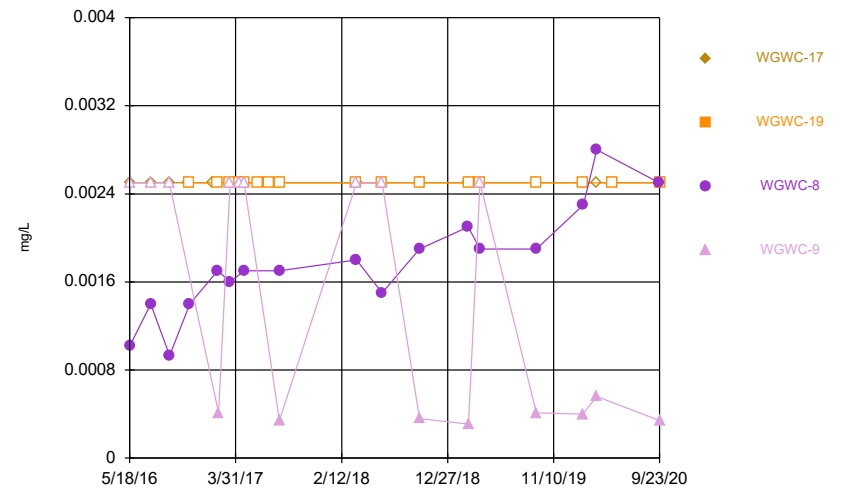
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



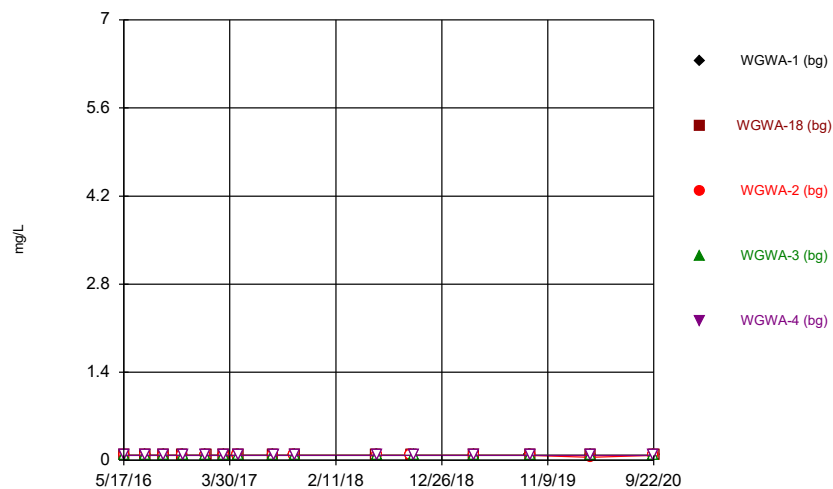
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Time Series



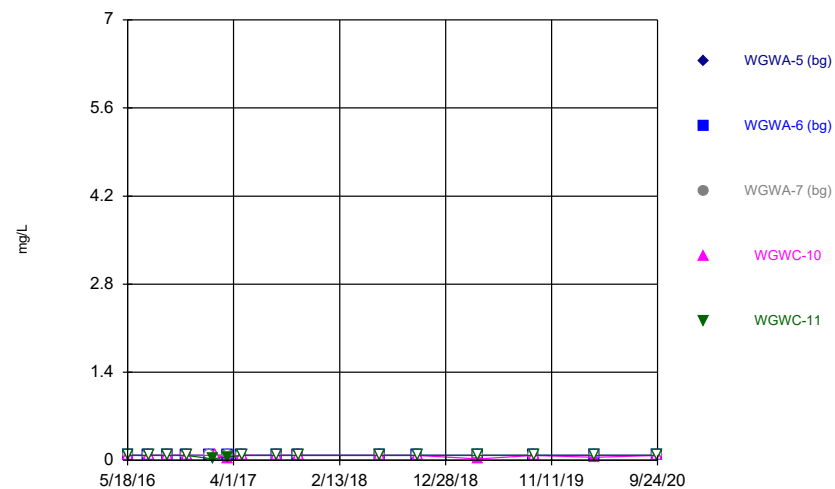
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



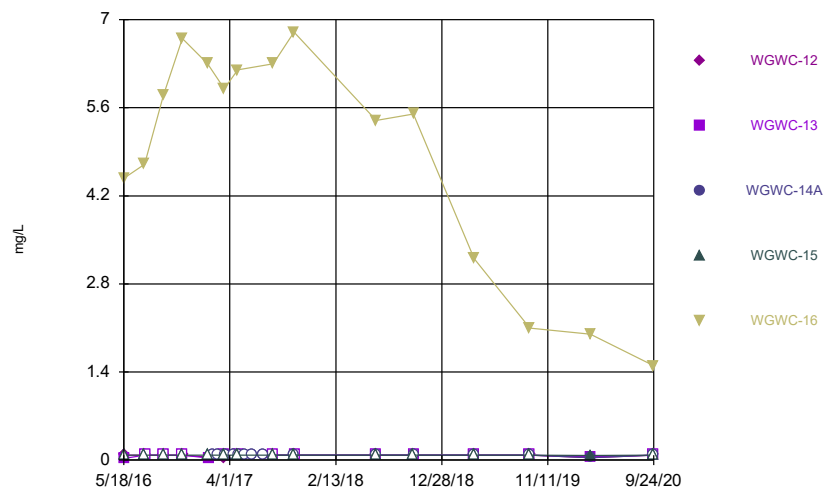
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



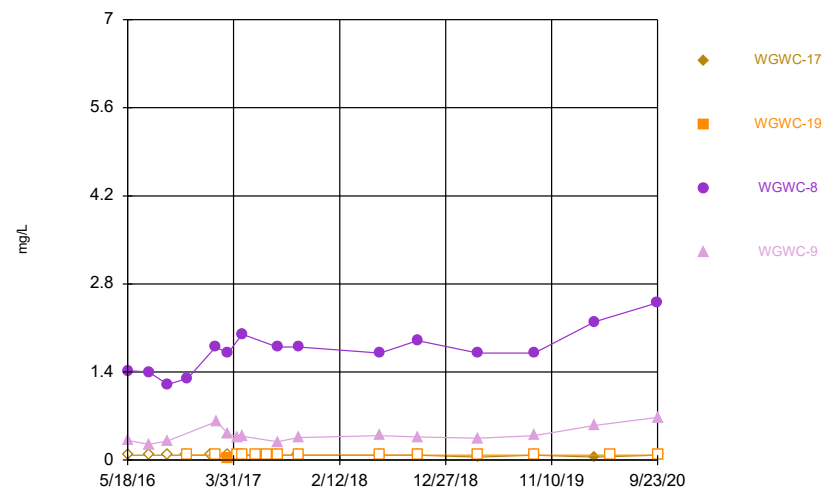
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



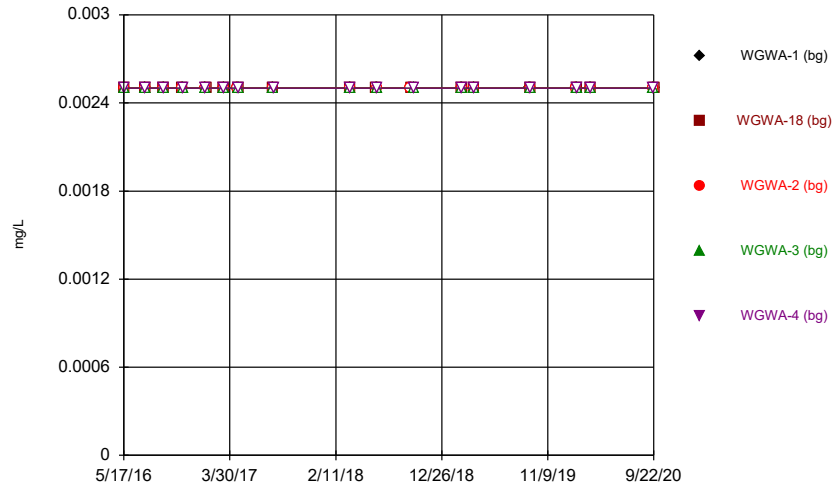
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



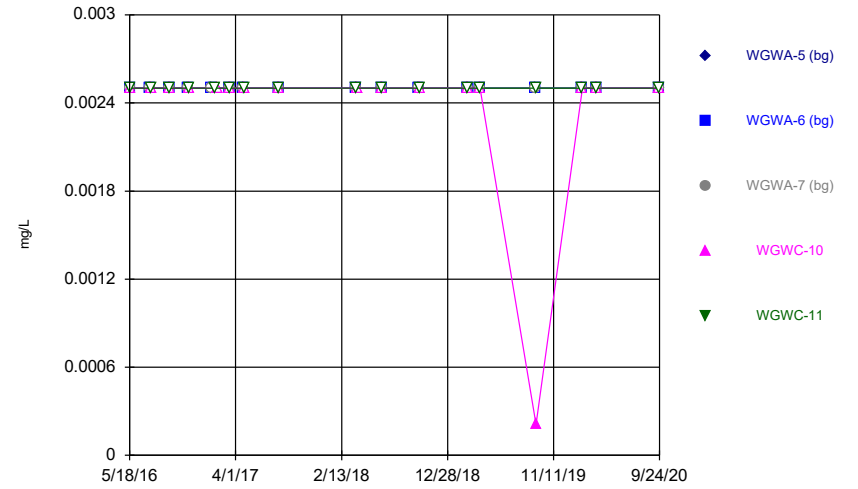
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



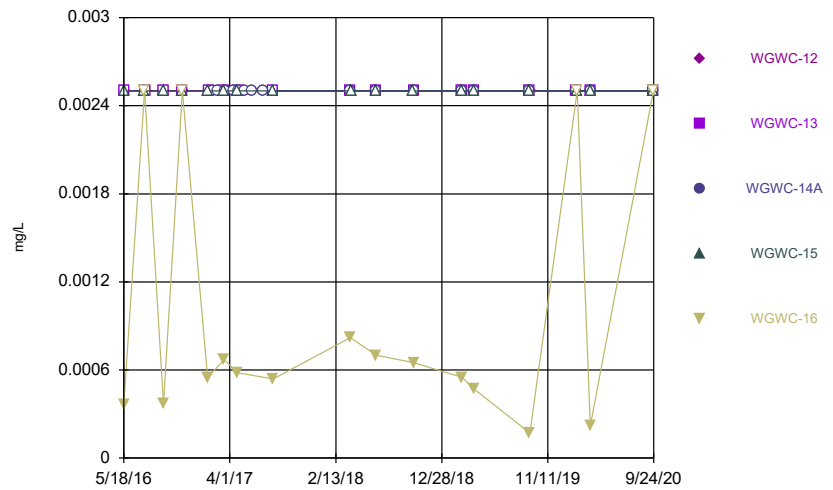
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



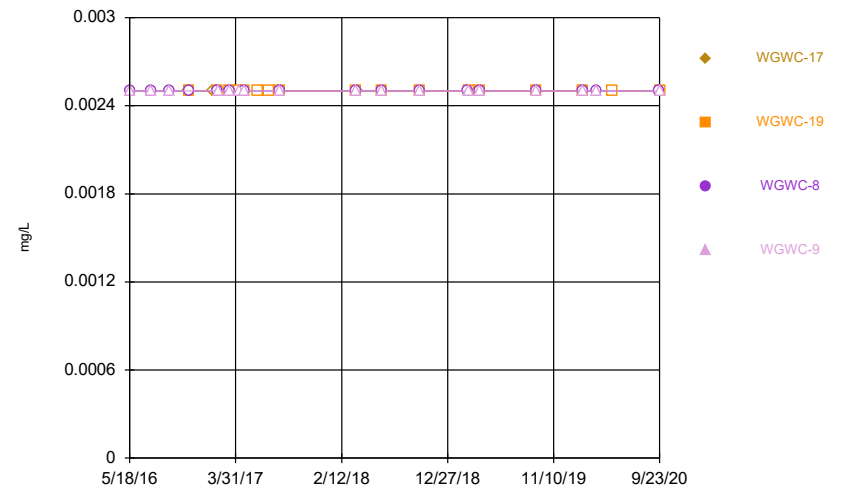
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



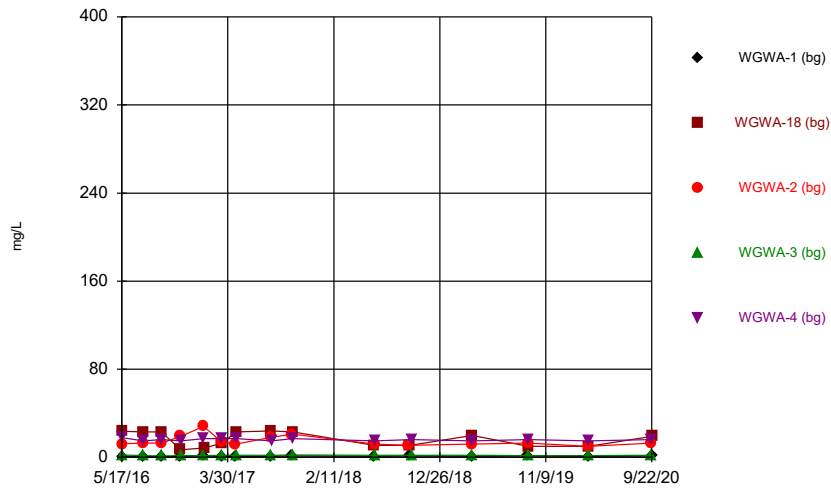
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



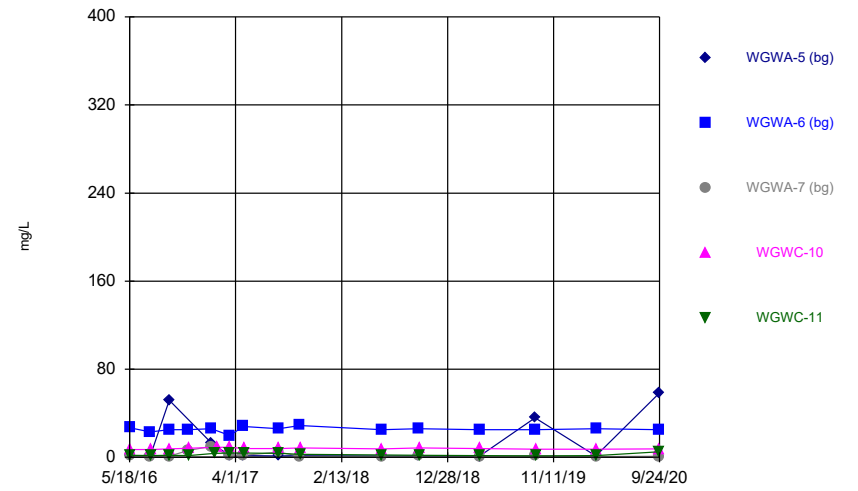
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



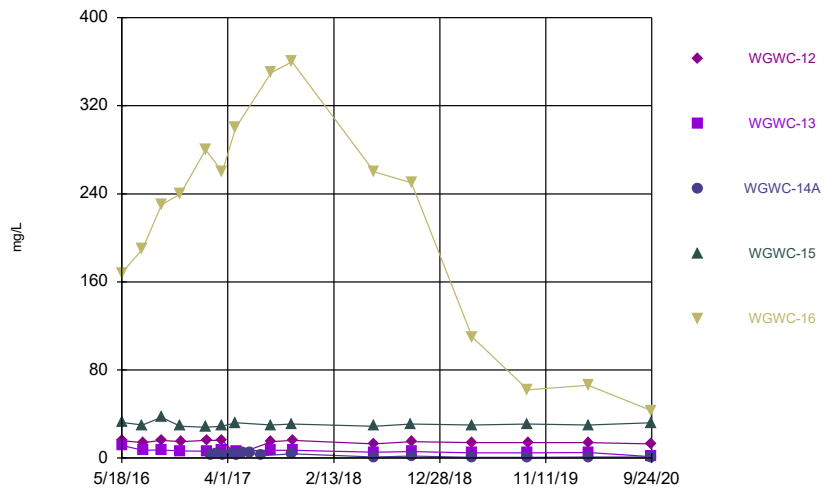
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



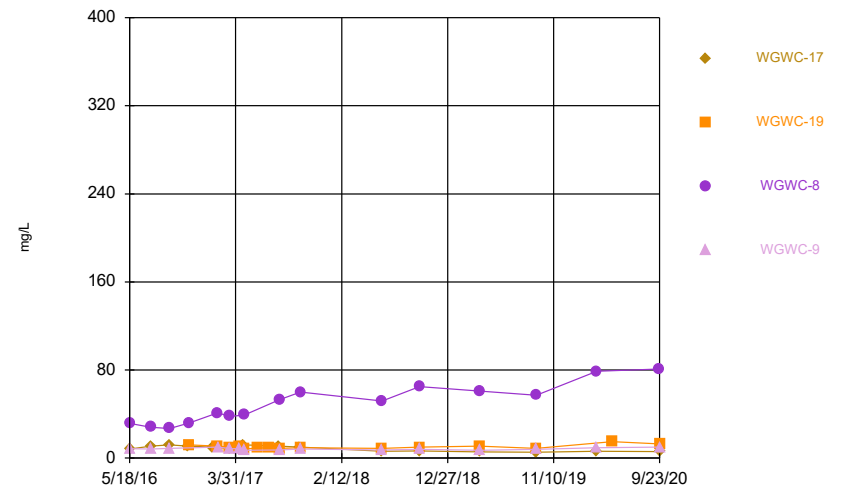
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



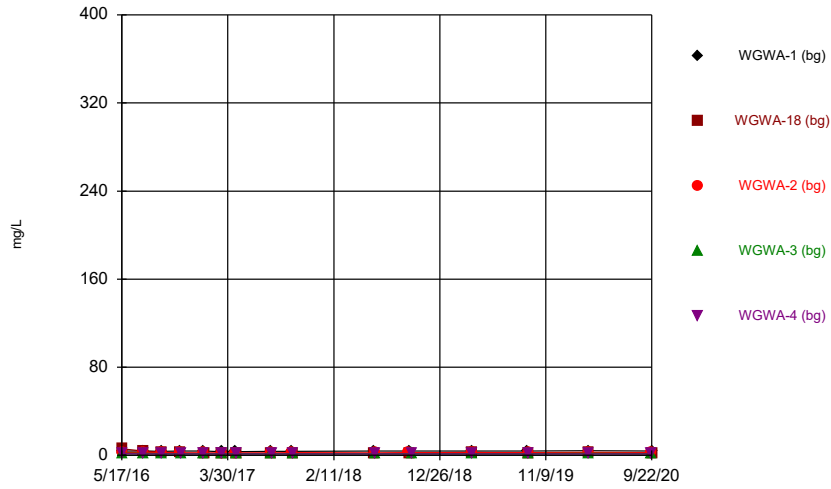
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



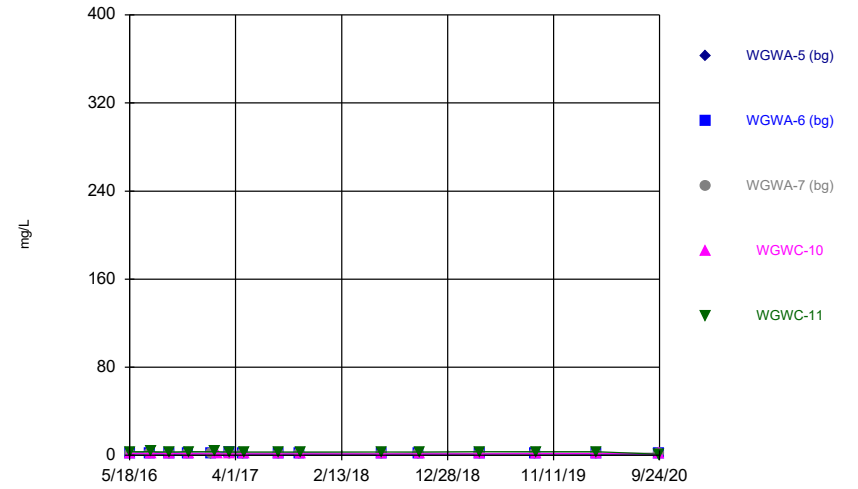
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



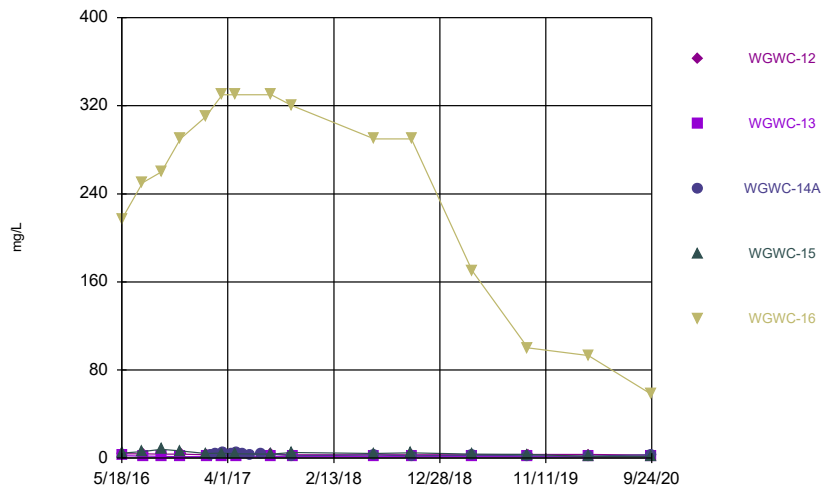
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



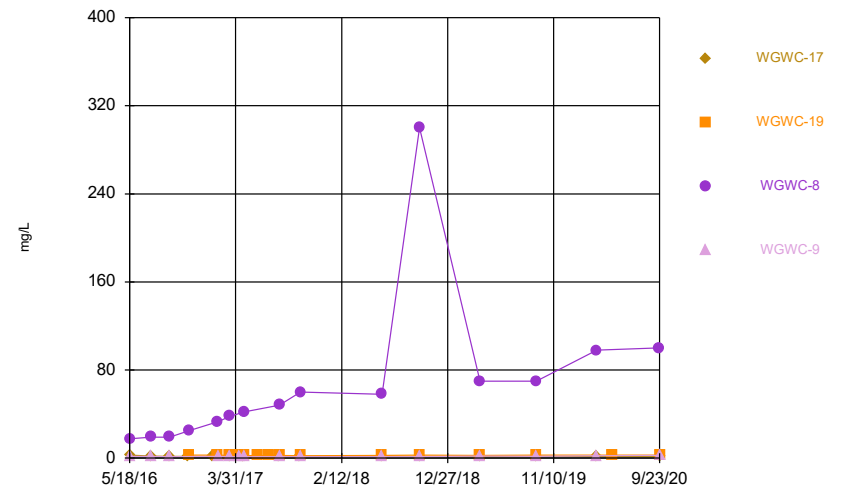
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



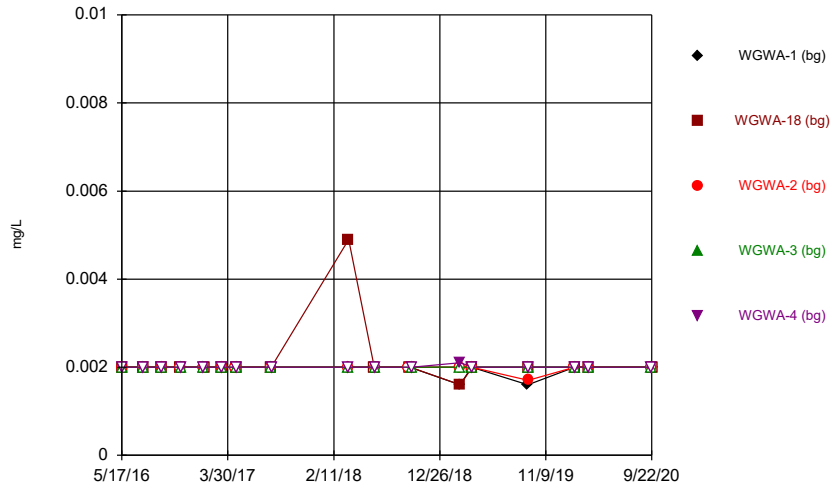
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



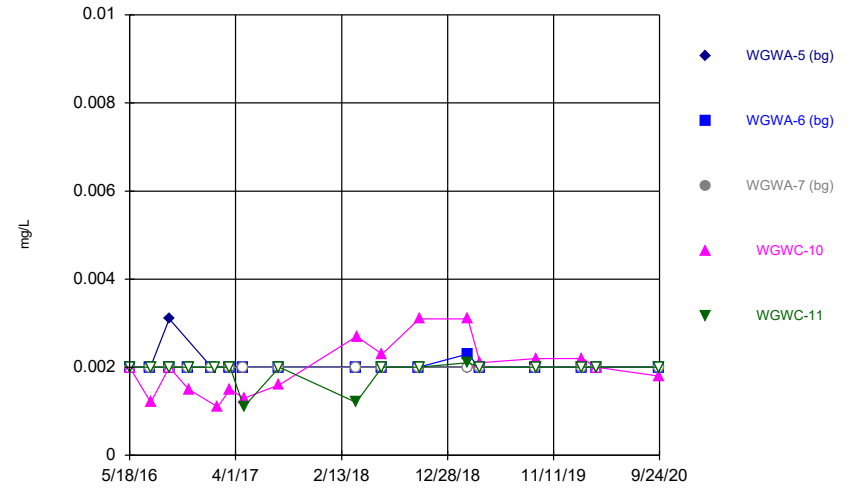
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



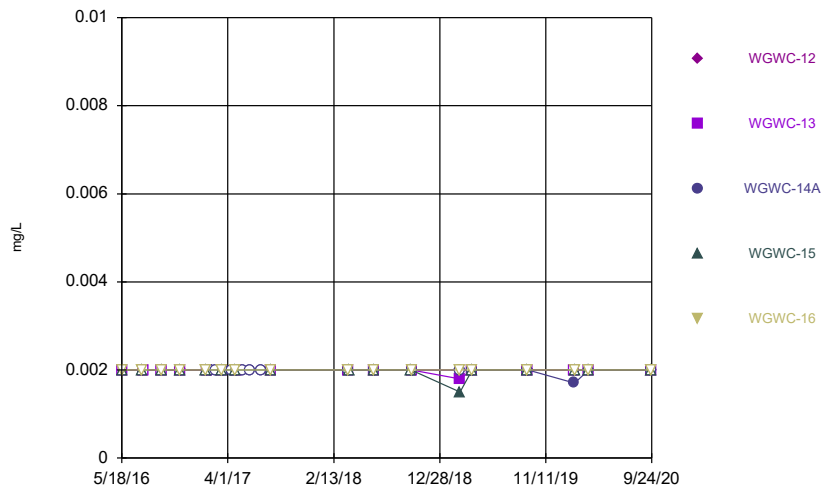
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



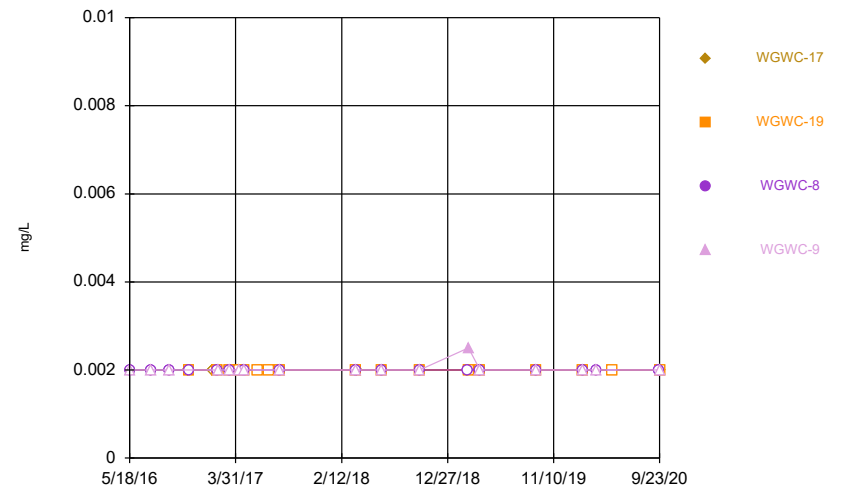
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



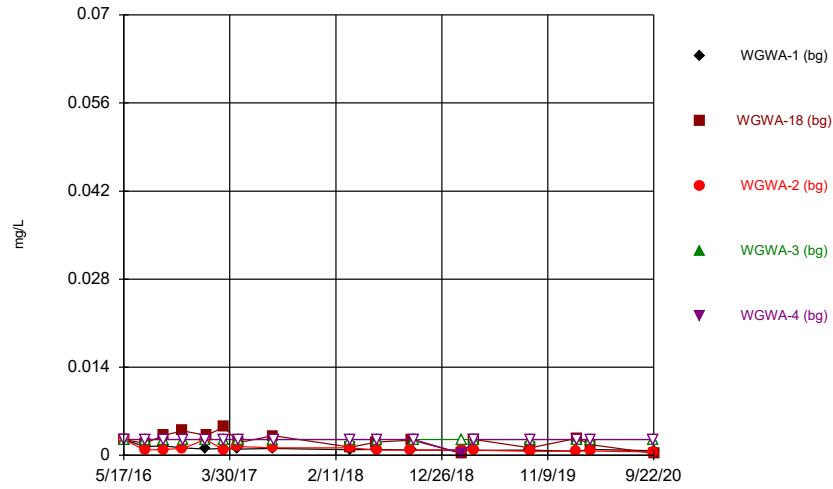
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



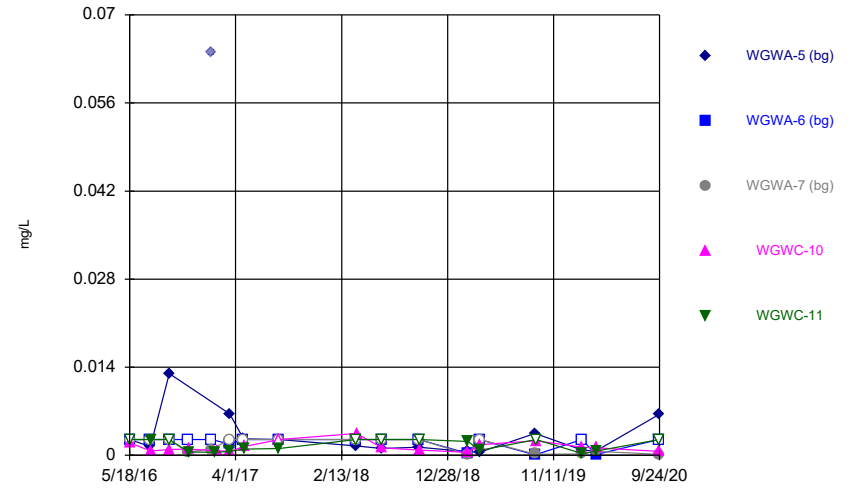
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



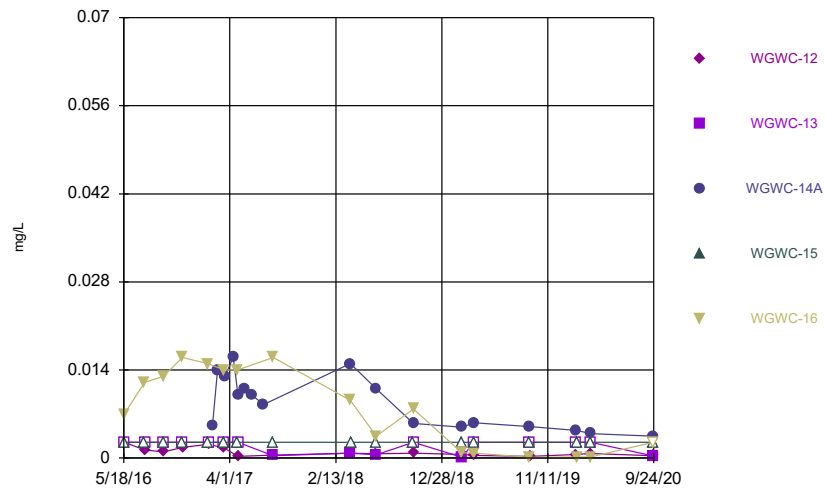
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



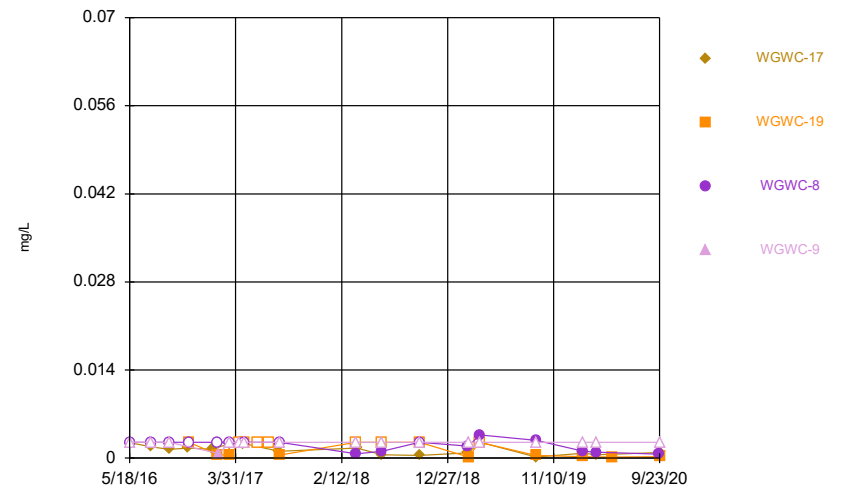
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



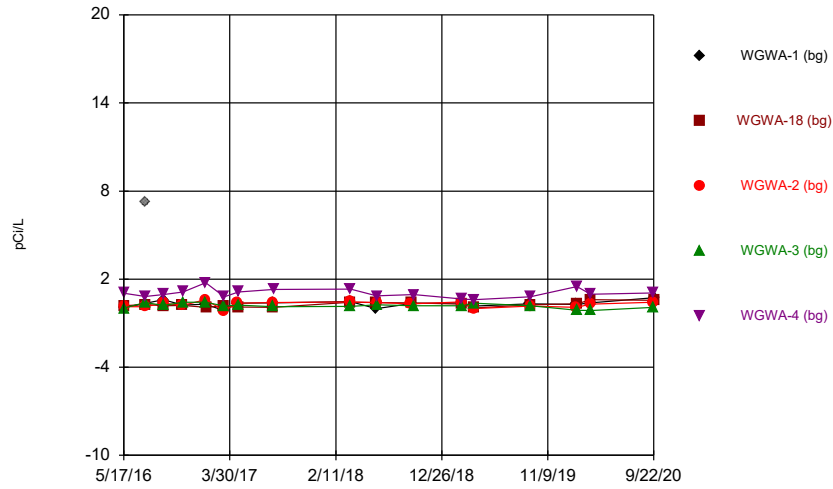
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



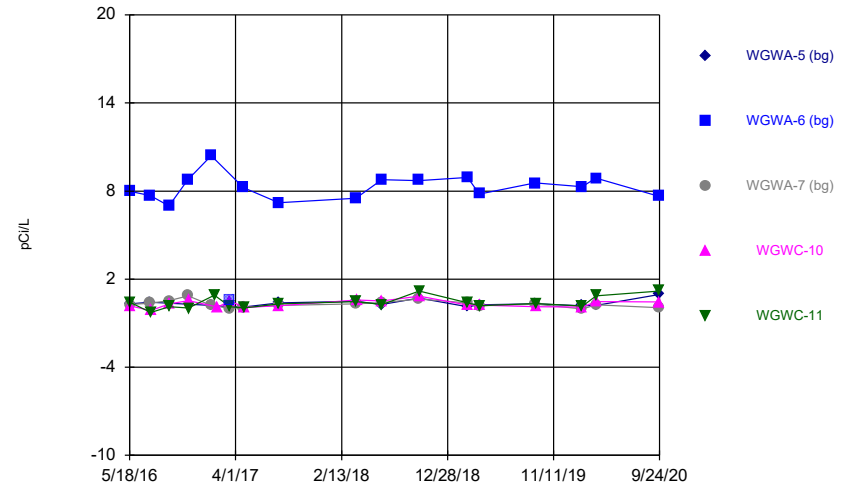
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



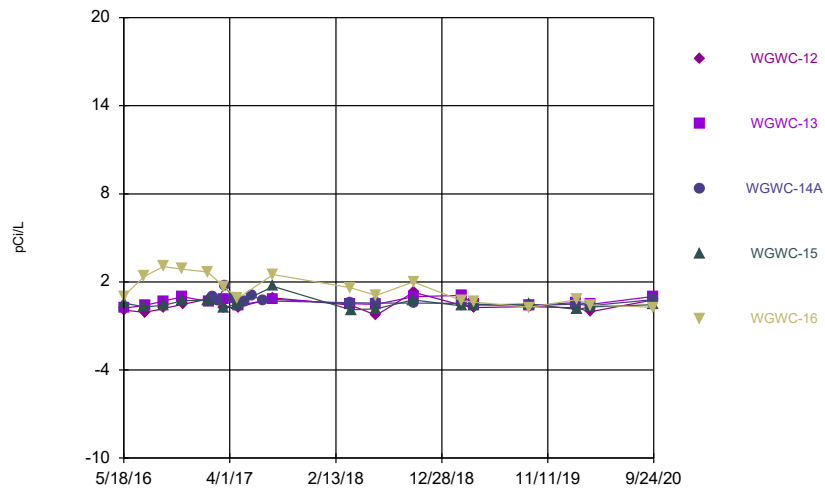
Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:19 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



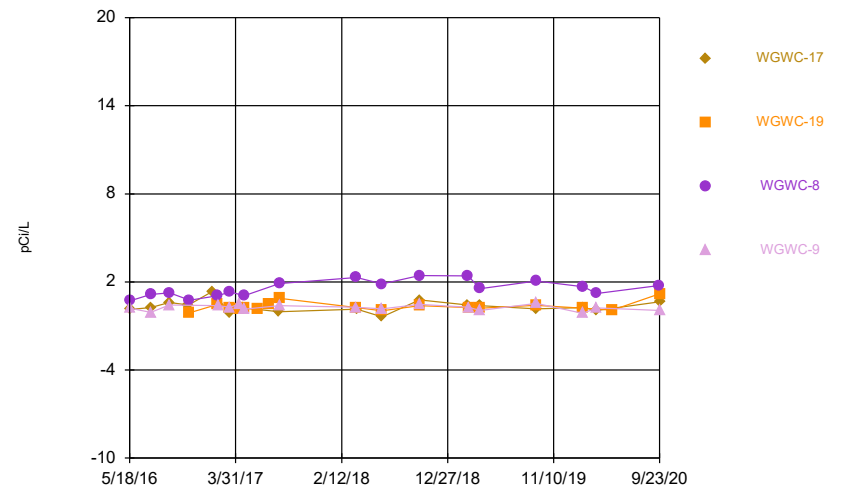
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



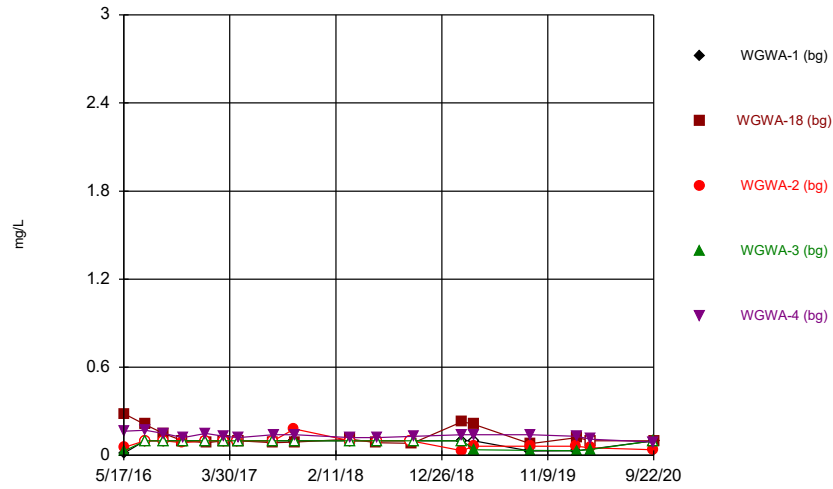
Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:19 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



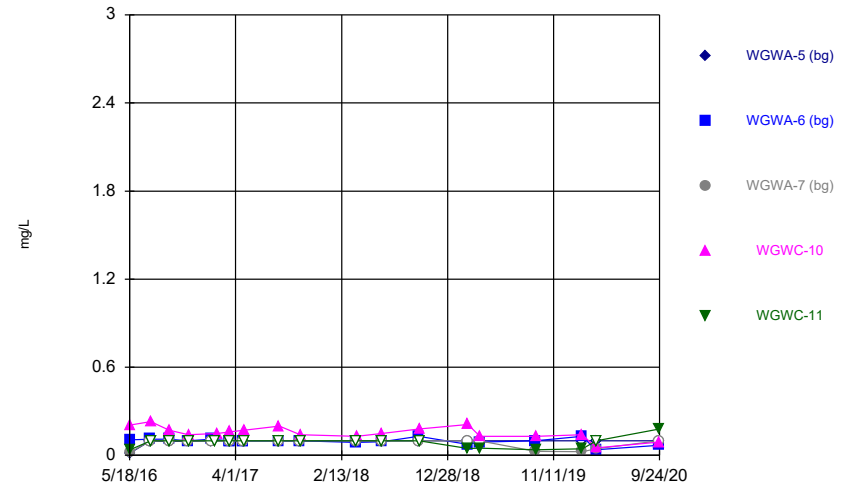
Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:19 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



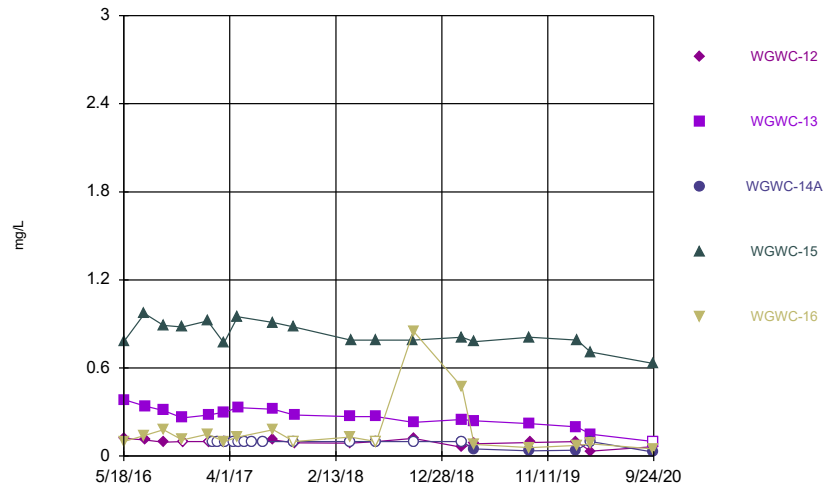
Constituent: Fluoride Analysis Run 1/8/2021 10:19 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



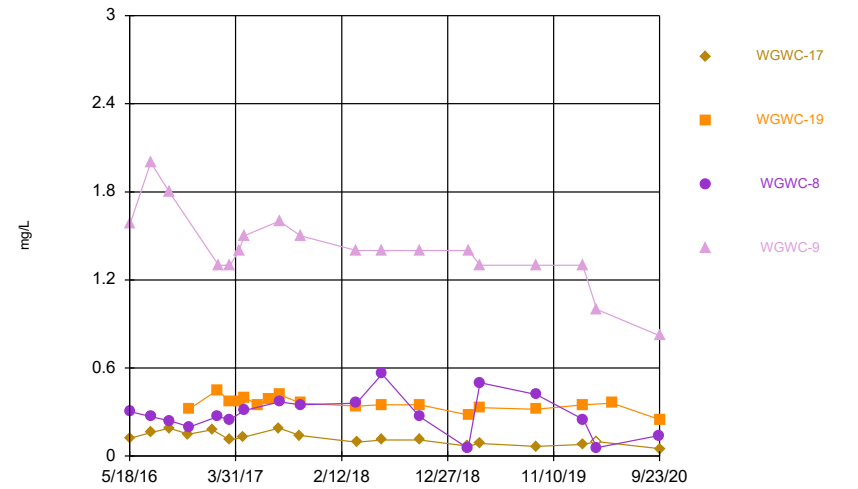
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



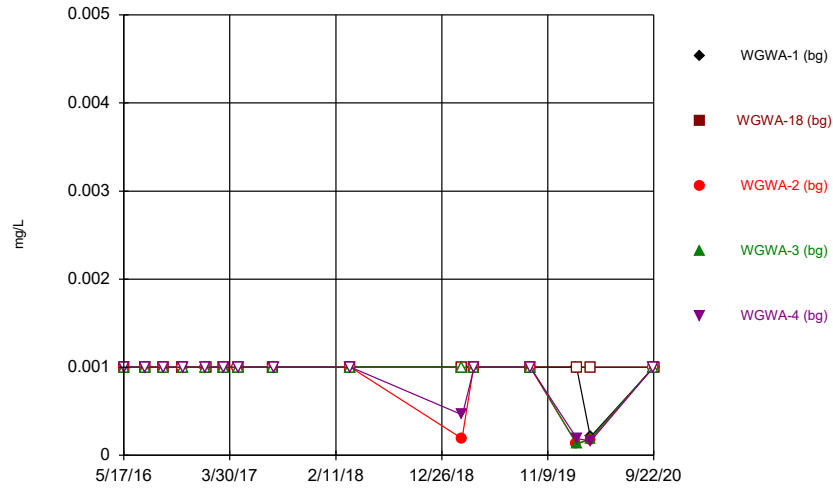
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



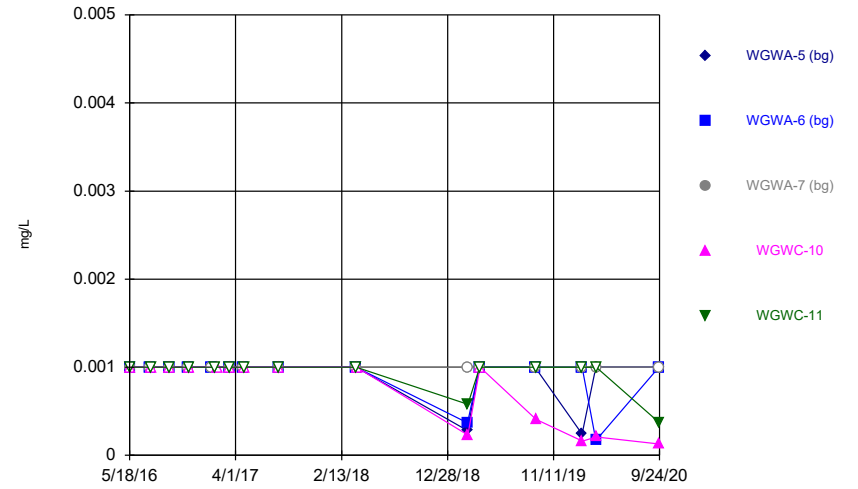
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



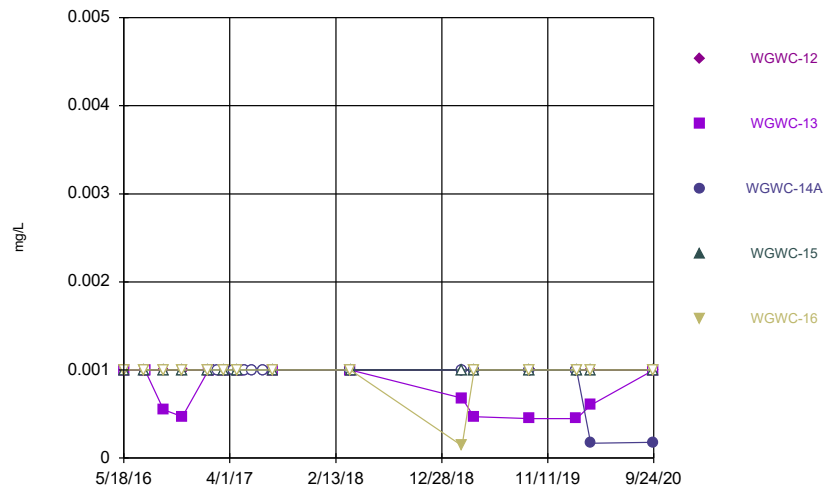
Constituent: Lead Analysis Run 1/8/2021 10:19 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



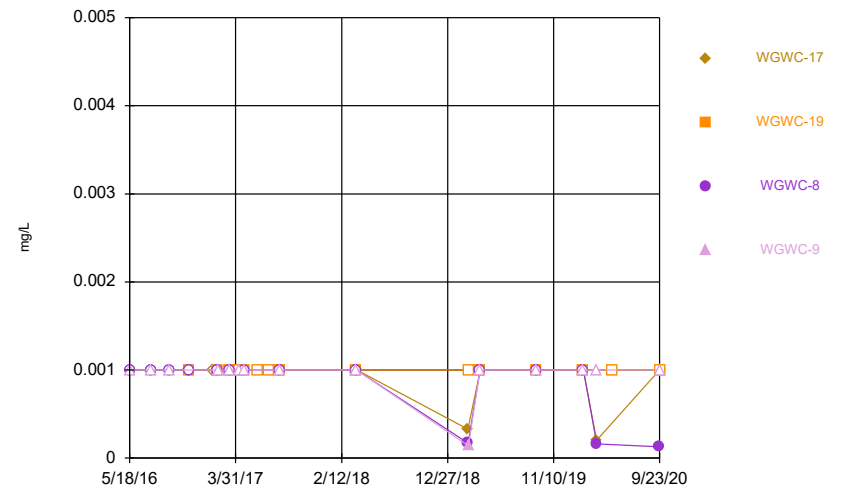
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



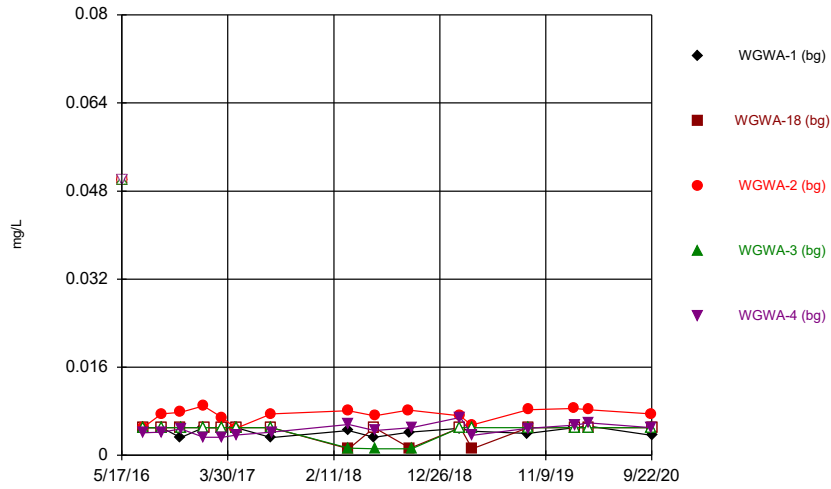
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



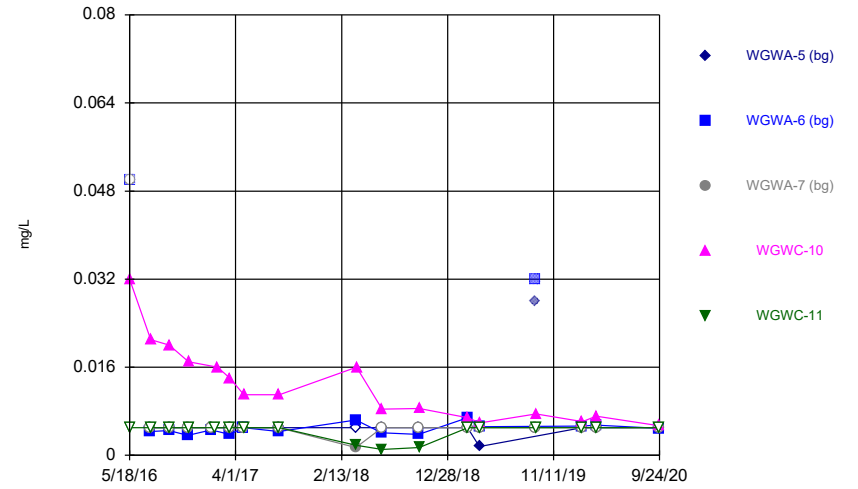
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



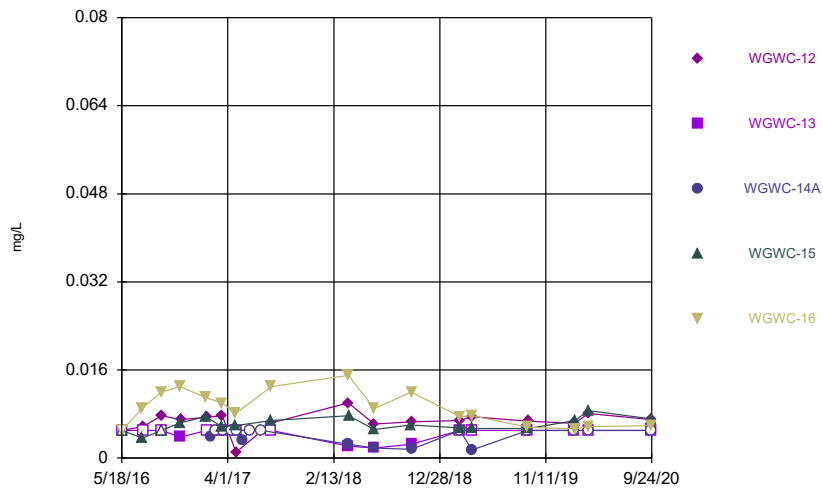
Constituent: Lithium Analysis Run 1/8/2021 10:19 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



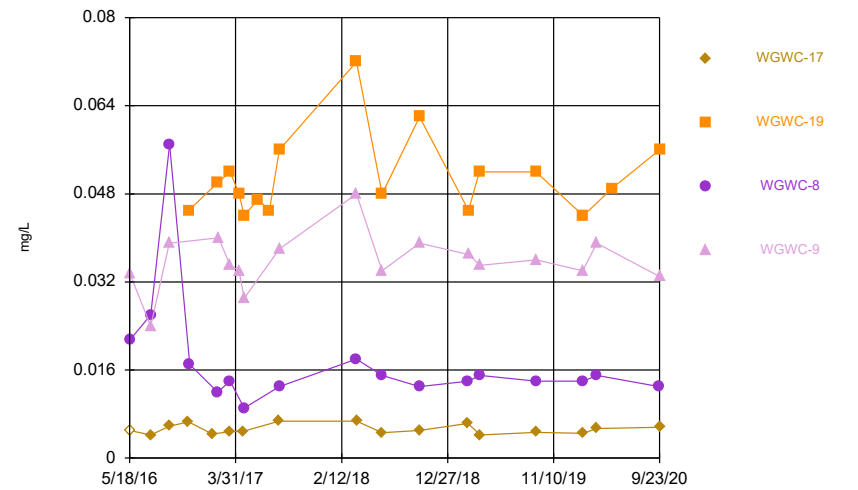
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



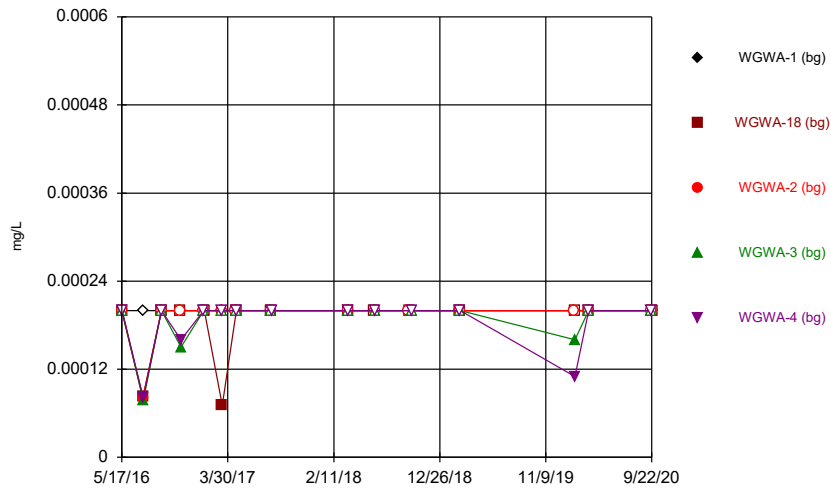
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



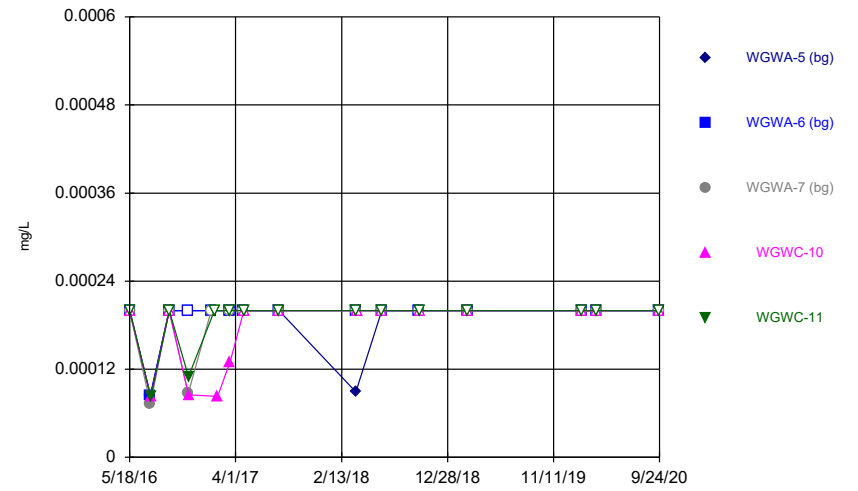
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



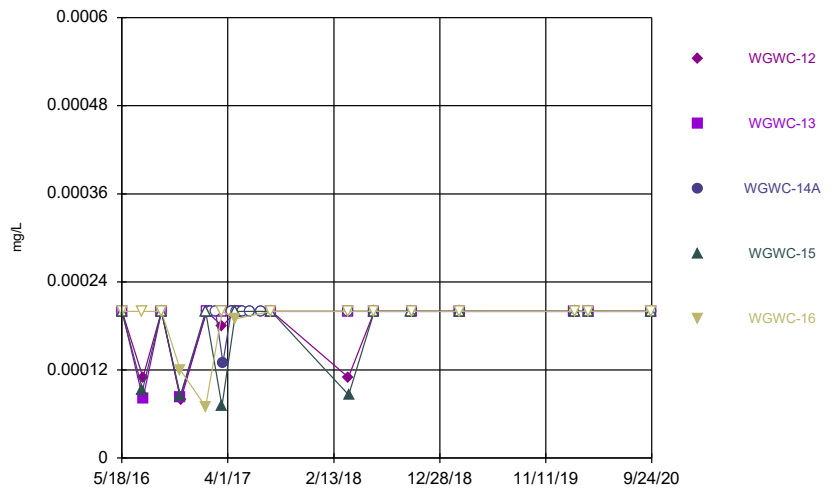
Constituent: Mercury Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



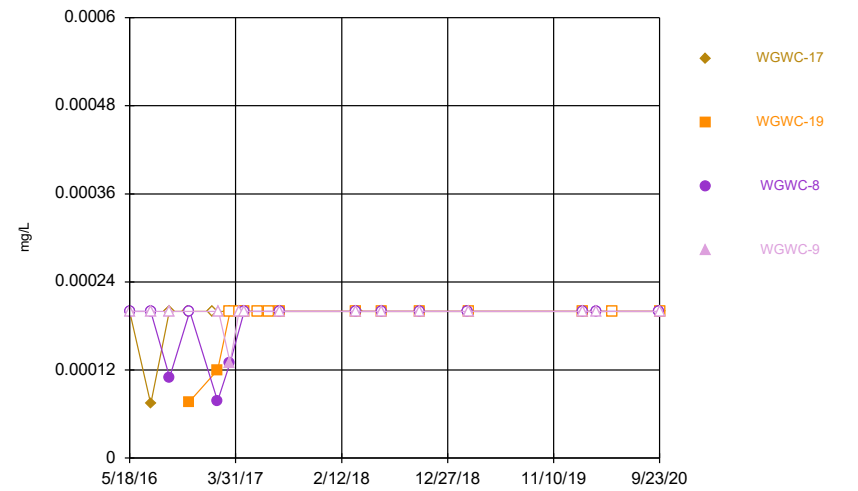
Constituent: Mercury Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



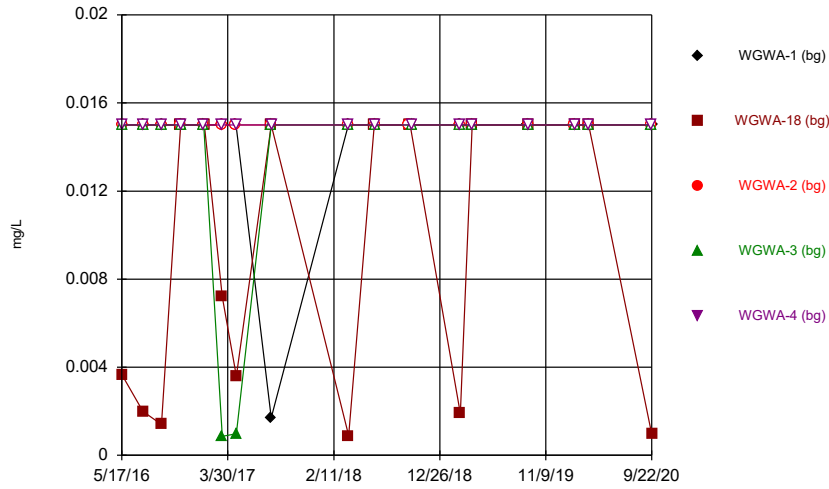
Constituent: Mercury Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



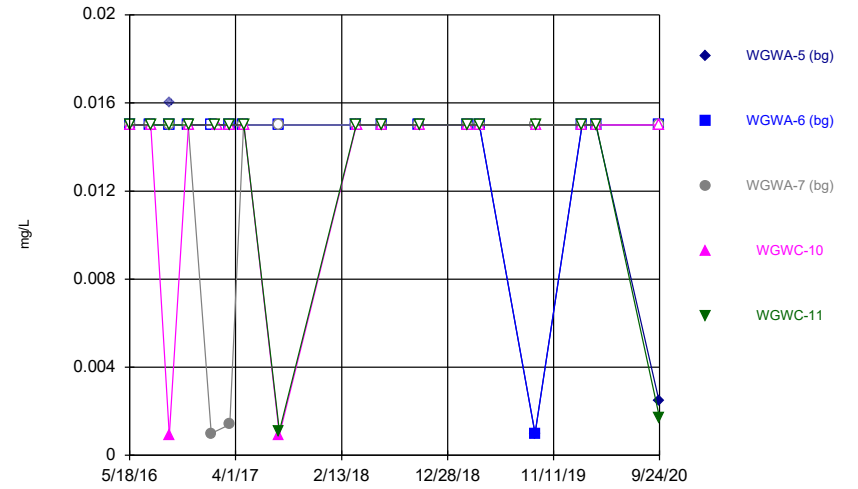
Constituent: Mercury Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



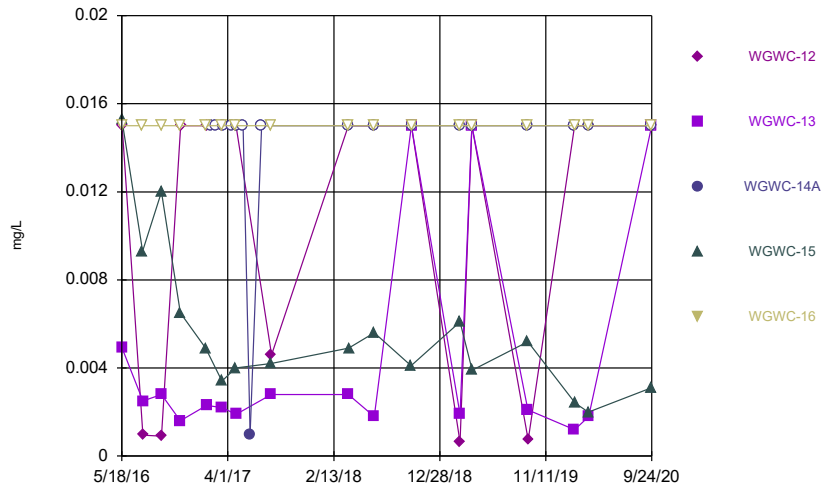
Constituent: Molybdenum Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



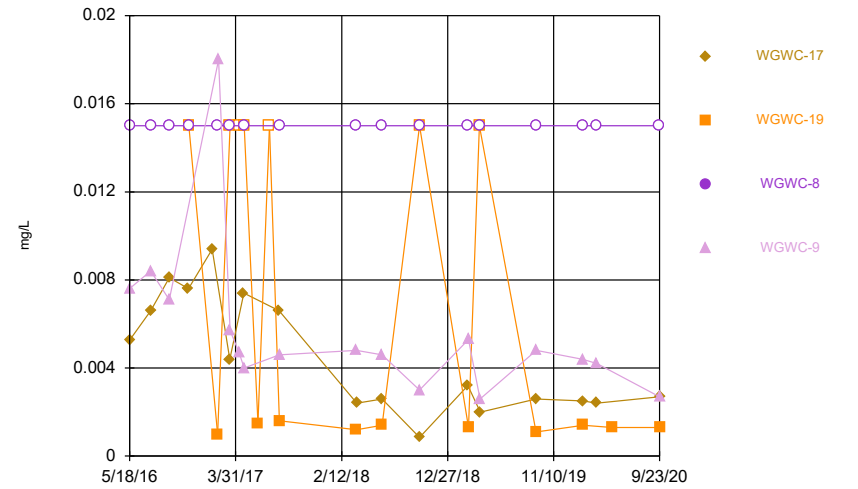
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



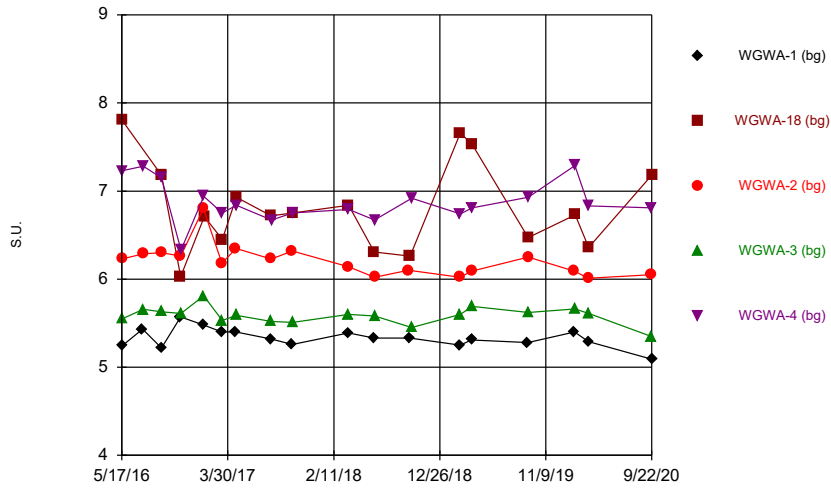
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



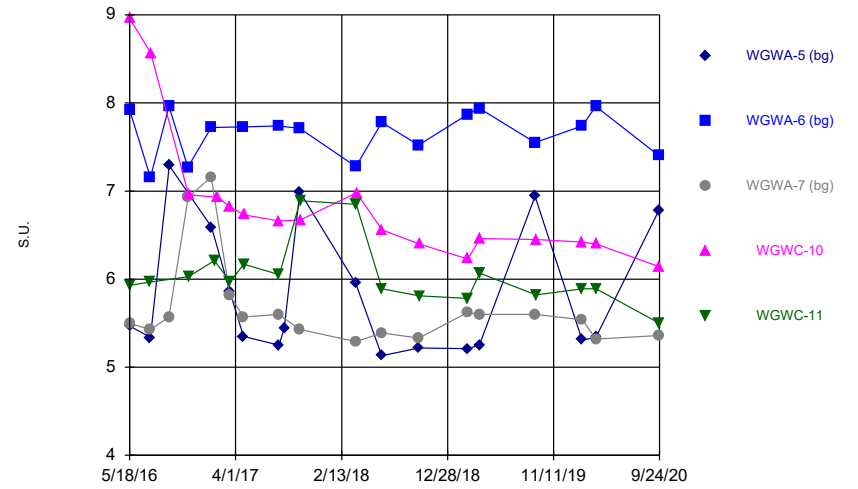
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



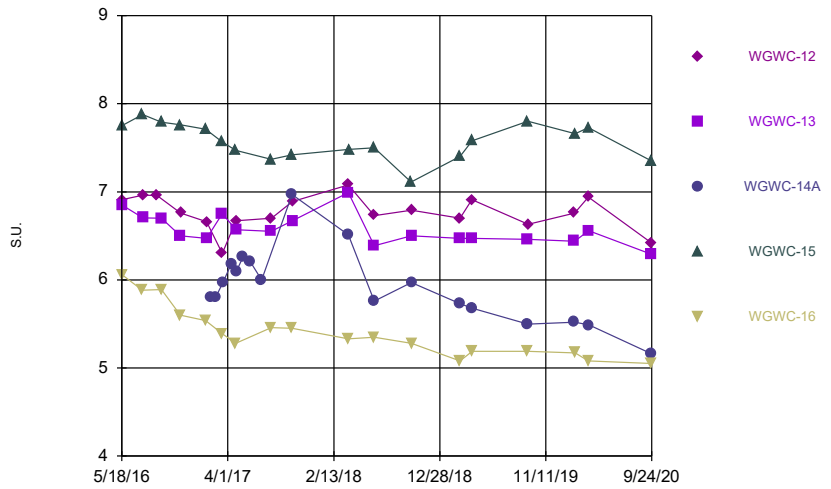
Constituent: pH Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



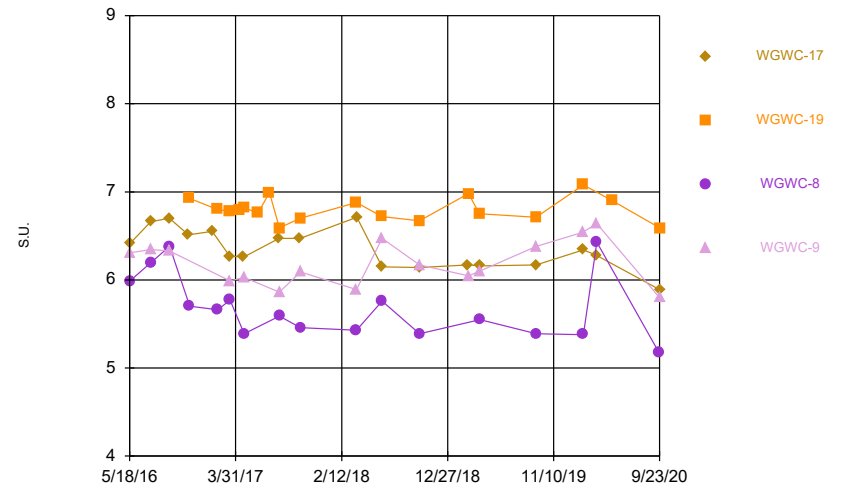
Constituent: pH Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



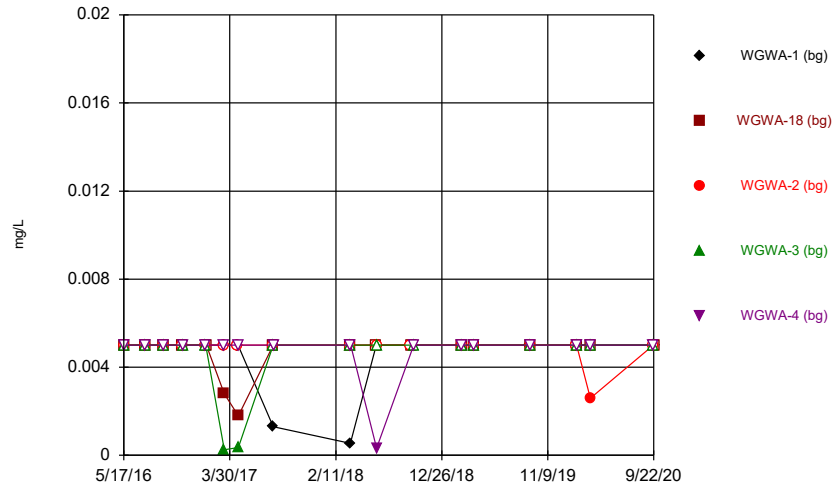
Constituent: pH Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



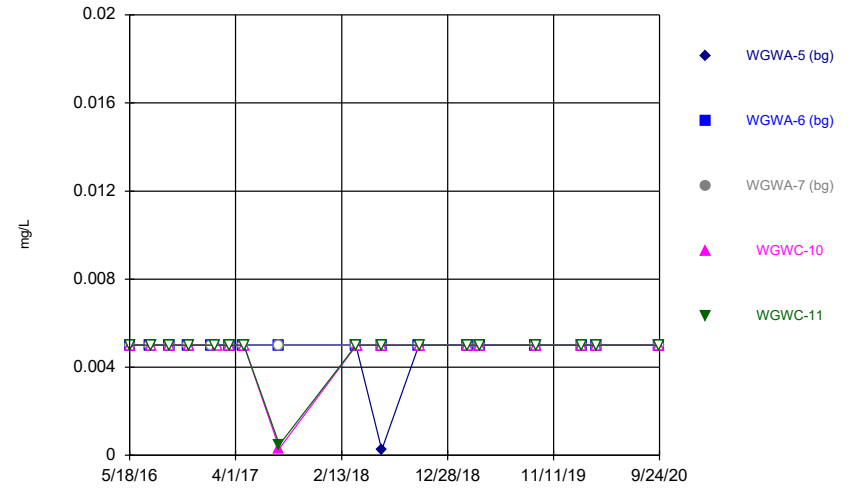
Constituent: pH Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



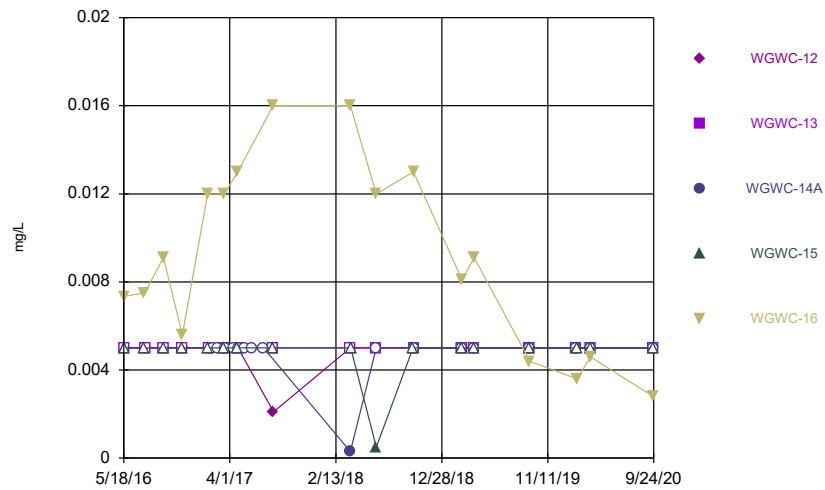
Constituent: Seleniun Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



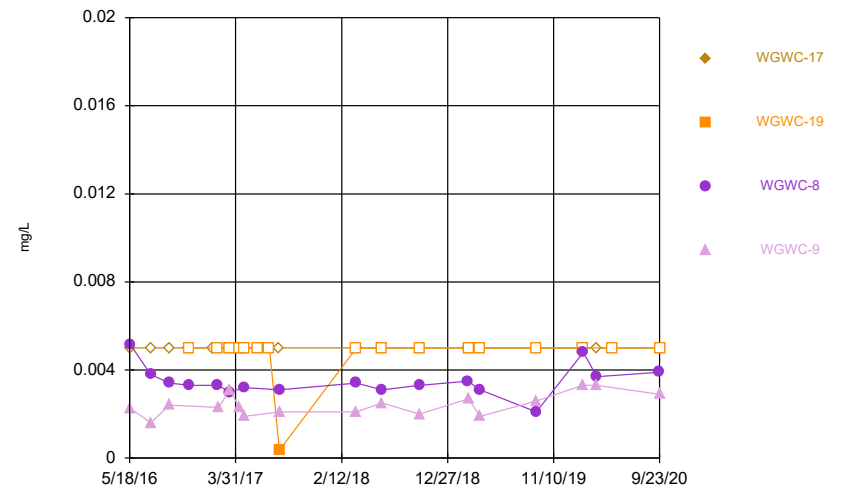
Constituent: Seleniun Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



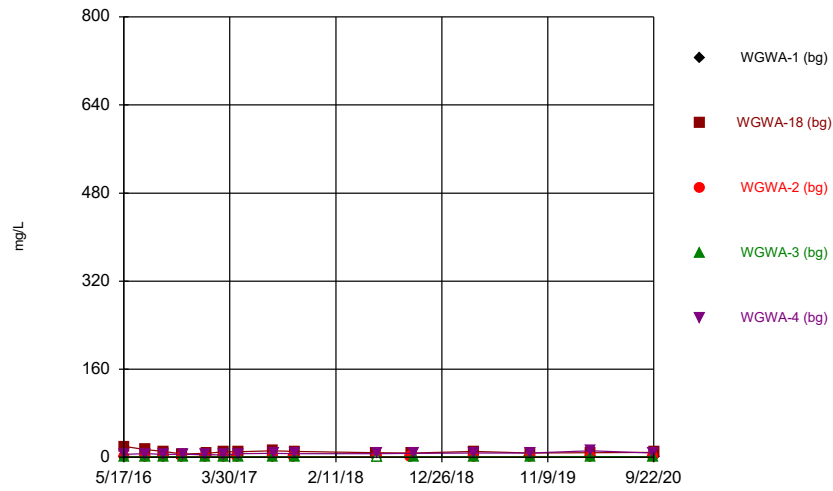
Constituent: Seleniun Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



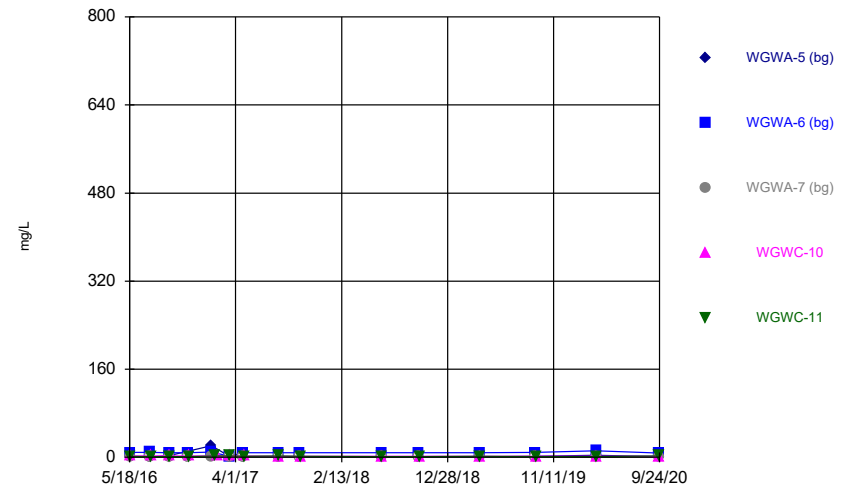
Constituent: Seleniun Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



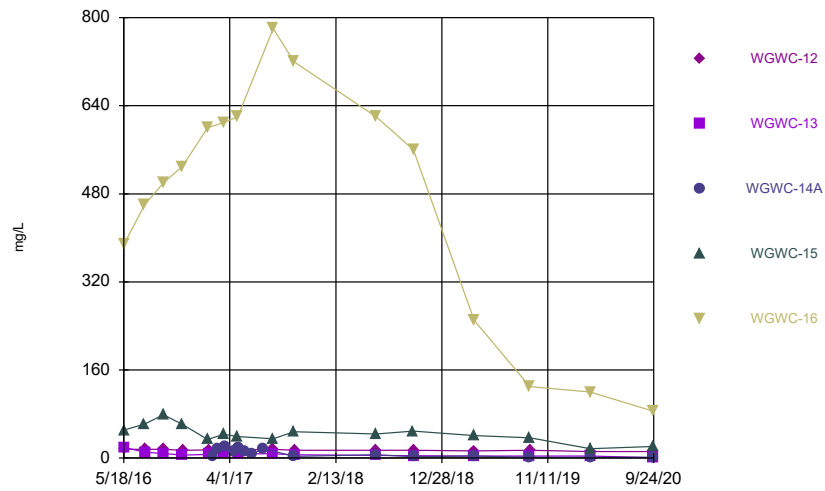
Constituent: Sulfate Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



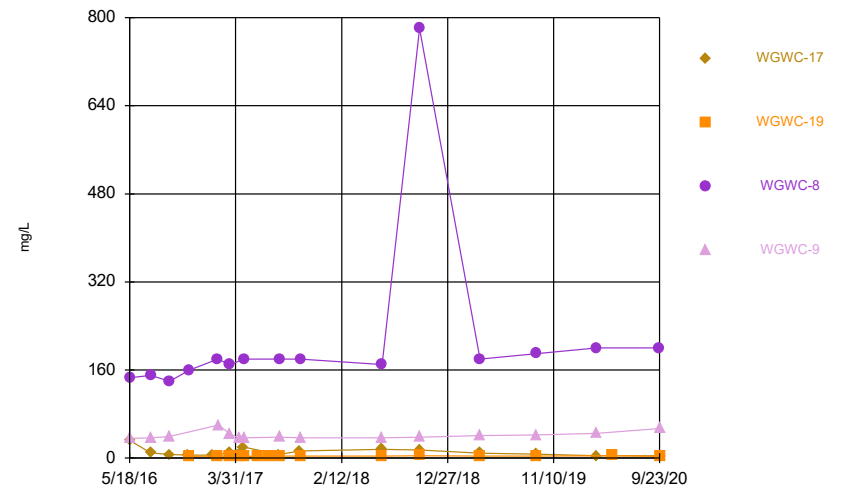
Constituent: Sulfate Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



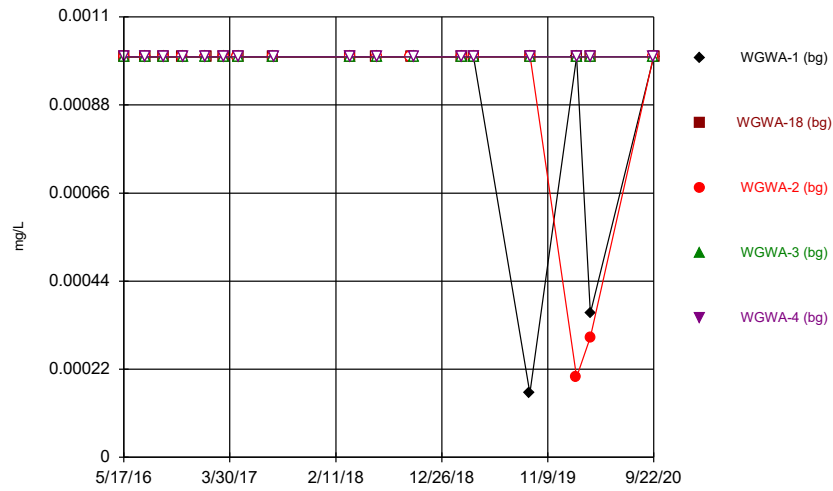
Constituent: Sulfate Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



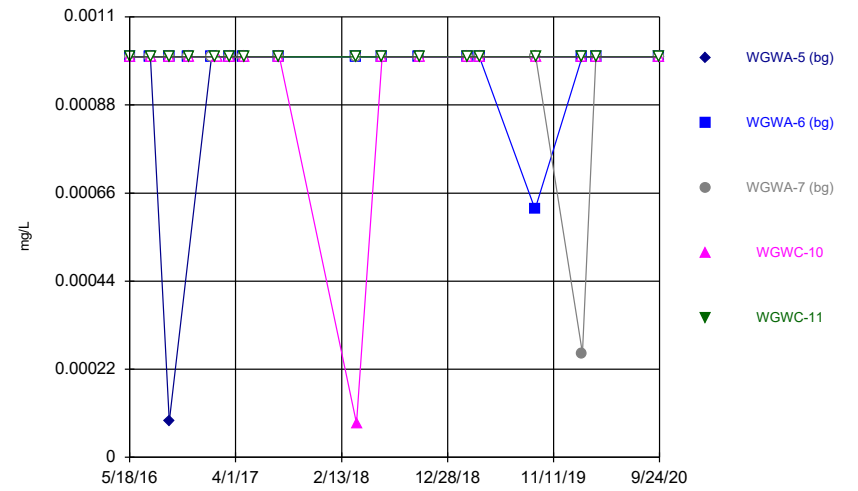
Constituent: Sulfate Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



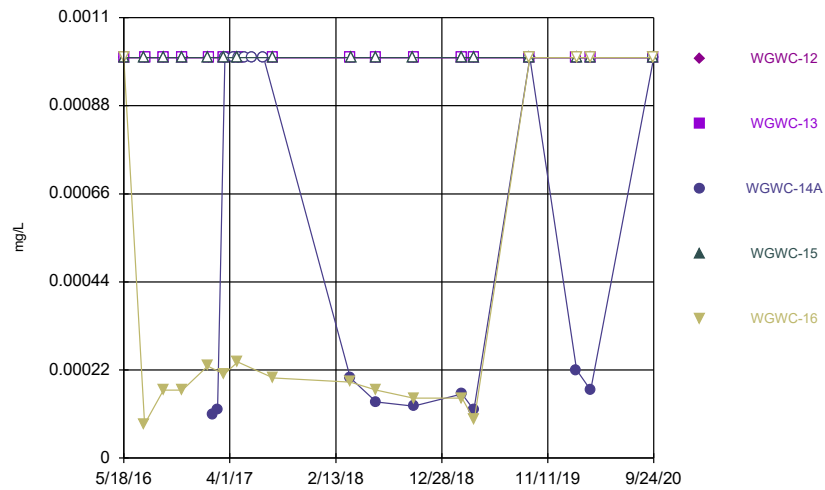
Constituent: Thallium Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



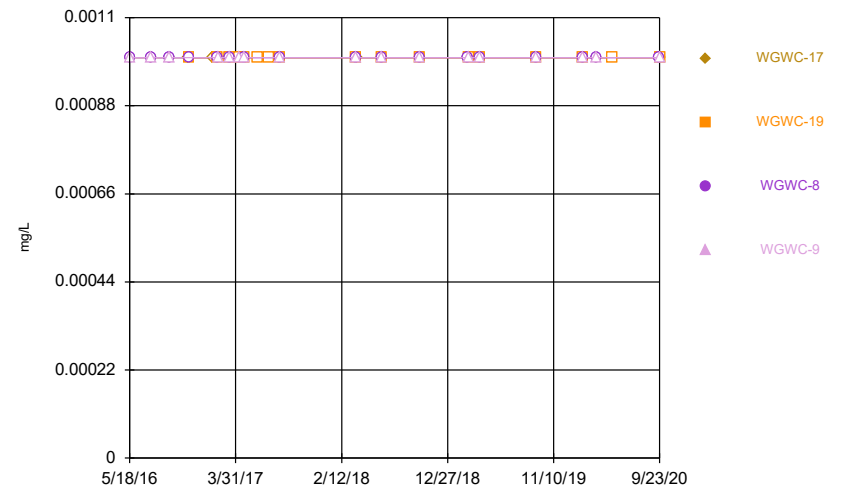
Constituent: Thallium Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



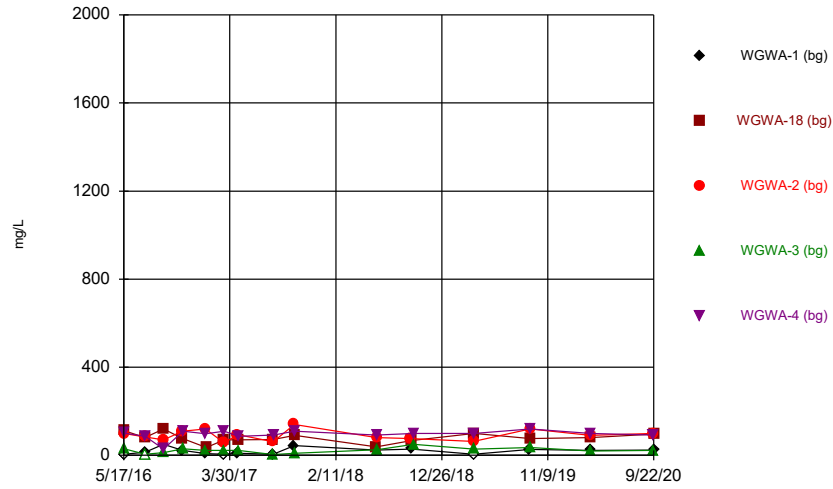
Constituent: Thallium Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



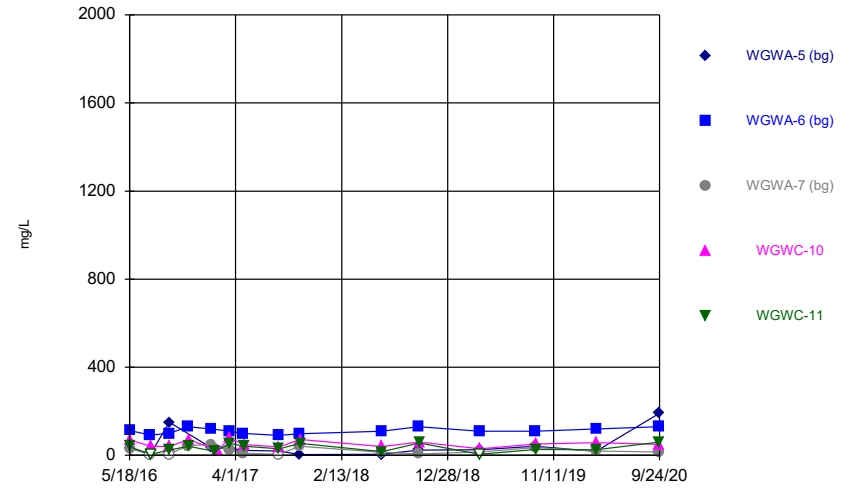
Constituent: Thallium Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



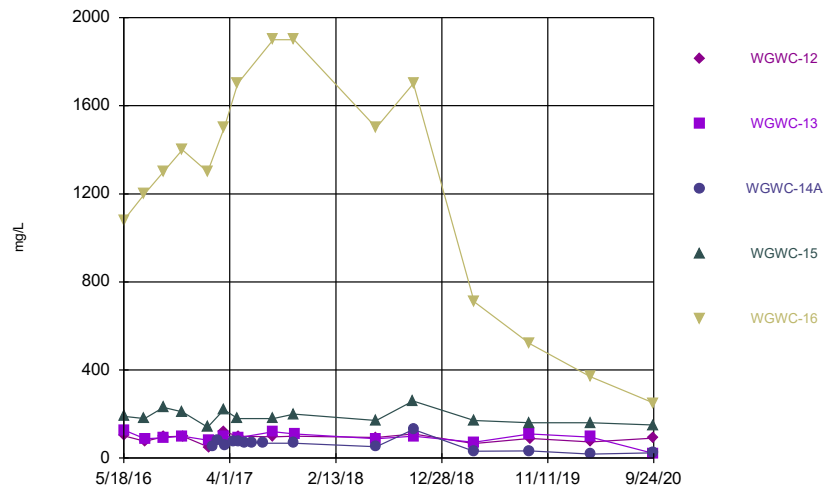
Constituent: Total Dissolved Solids Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



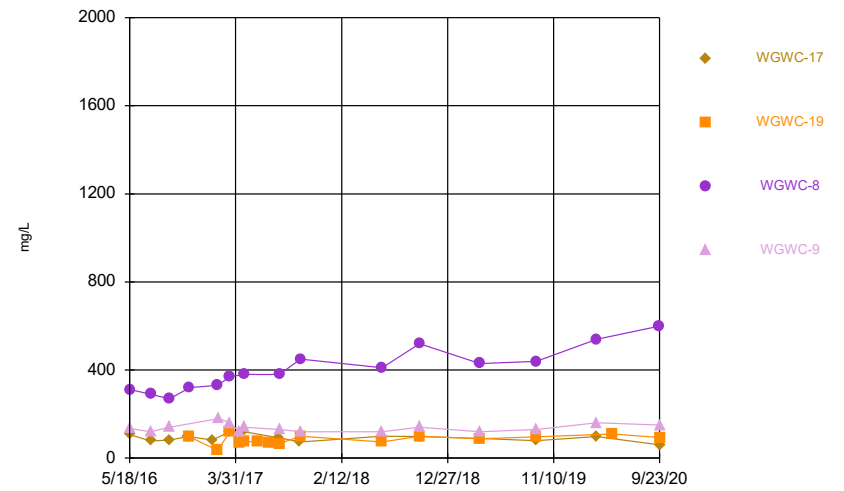
Constituent: Total Dissolved Solids Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.002	<0.002	<0.002		
5/18/2016				<0.002	<0.002
7/19/2016	<0.002	<0.002	<0.002		
7/20/2016				<0.002	<0.002
9/13/2016	<0.002	<0.002	<0.002	<0.002	<0.002
11/9/2016	<0.002	<0.002	<0.002		
11/10/2016				<0.002	<0.002
1/17/2017	<0.002		<0.002		
1/18/2017				<0.002	<0.002
1/19/2017		<0.002			
3/13/2017	<0.002		<0.002		
3/14/2017		<0.002		<0.002	<0.002
4/24/2017	<0.002		<0.002		
4/25/2017		<0.002		<0.002	<0.002
8/8/2017	0.0022 (J)	<0.002	<0.002	<0.002	
8/9/2017					<0.002
3/27/2018	<0.002		<0.002		
3/28/2018		<0.002		<0.002	<0.002
2/25/2019	<0.002		<0.002		
2/26/2019		<0.002		<0.002	<0.002
2/3/2020	<0.002		<0.002		
2/4/2020				<0.002	<0.002
2/5/2020		<0.002			
3/16/2020	<0.002		<0.002		
3/17/2020		<0.002		<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.002	<0.002	<0.002	<0.002	
5/19/2016					<0.002
7/19/2016	<0.002	<0.002	<0.002		
7/20/2016				<0.002	<0.002
9/13/2016		<0.002	<0.002		
9/14/2016	<0.002			<0.002	<0.002
11/9/2016		<0.002			
11/10/2016			<0.002		
11/11/2016				<0.002	<0.002
1/18/2017		<0.002	<0.002		
1/19/2017	<0.002				
1/27/2017					<0.002
2/6/2017				<0.002	
3/14/2017	<0.002	<0.002	<0.002		
3/15/2017				<0.002	<0.002
4/25/2017	<0.002	<0.002	<0.002		
4/26/2017				<0.002	<0.002
8/8/2017		<0.002	<0.002		
8/9/2017	<0.002				
8/10/2017				<0.002	<0.002
3/28/2018	<0.002	<0.002	<0.002		
3/29/2018					<0.002
3/30/2018				<0.002	
2/26/2019	<0.002	<0.002	<0.002		
2/27/2019				<0.002	<0.002
2/4/2020	<0.002	<0.002			
2/5/2020			<0.002	<0.002	<0.002
3/17/2020	<0.002	<0.002	<0.002		
3/18/2020				<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.002	<0.002
5/19/2016	<0.002	<0.002			
7/19/2016				<0.002	<0.002
7/20/2016	<0.002	<0.002			
9/14/2016	<0.002	<0.002		<0.002	<0.002
11/10/2016		<0.002		<0.002	<0.002
11/11/2016	<0.002				
1/24/2017				<0.002	<0.002
1/27/2017	<0.002	<0.002			
2/8/2017			<0.002		
2/23/2017			<0.002		
3/14/2017				<0.002	
3/15/2017	<0.002	<0.002			<0.002
3/17/2017			<0.002		
4/11/2017			<0.002		
4/25/2017				<0.002	<0.002
4/26/2017	<0.002	<0.002	<0.002		
5/17/2017			<0.002		
6/7/2017			<0.002		
7/11/2017			<0.002		
8/9/2017		<0.002		<0.002	<0.002
8/10/2017	0.0023 (J)				
3/29/2018	<0.002	<0.002	<0.002		<0.002
3/30/2018				<0.002	
2/27/2019	<0.002	<0.002	<0.002	<0.002	<0.002
2/5/2020	<0.002	<0.002	<0.002		
2/7/2020				<0.002	<0.002
3/18/2020	<0.002			<0.002	<0.002
3/19/2020		<0.002	<0.002		

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.002			
5/19/2016			<0.002	<0.002
7/20/2016	<0.002		<0.002	<0.002
9/14/2016	<0.002			<0.002
9/15/2016			<0.002	
11/10/2016	<0.002			
11/11/2016		<0.002		
11/14/2016			<0.002	
1/20/2017	<0.002			
2/6/2017		<0.002	<0.002	
2/9/2017				<0.002
3/14/2017	<0.002			
3/15/2017		<0.002	<0.002	0.0011 (J)
4/11/2017		<0.002		<0.002
4/25/2017	<0.002			
4/26/2017		<0.002	<0.002	<0.002
6/7/2017		<0.002		
7/11/2017		<0.002		
8/9/2017	<0.002			
8/10/2017		<0.002	<0.002	<0.002
3/29/2018		<0.002	<0.002	<0.002
3/30/2018	<0.002			
2/26/2019	<0.002			
2/27/2019			<0.002	
2/28/2019		<0.002		<0.002
2/5/2020				<0.002
2/7/2020	<0.002	<0.002	<0.002	
3/18/2020	<0.002			
3/19/2020			<0.002	0.00041 (J)
5/4/2020		<0.002		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.001	<0.001	<0.001		
5/18/2016				<0.001	<0.001
7/19/2016	<0.001	0.00061 (J)	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016	<0.001	0.00074 (J)	<0.001	<0.001	<0.001
11/9/2016	<0.001	<0.001	<0.001		
11/10/2016				<0.001	0.00078 (J)
1/17/2017	<0.001		0.00099 (J)		
1/18/2017				0.00086 (J)	0.0012 (J)
1/19/2017		0.00079 (J)			
3/13/2017	<0.001		<0.001		
3/14/2017		0.0014		<0.001	<0.001
4/24/2017	<0.001		<0.001		
4/25/2017		0.00062 (J)		<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001	
8/9/2017					<0.001
3/27/2018	<0.001		<0.001		
3/28/2018		0.00046 (J)		<0.001	<0.001
6/13/2018	0.001 (J)	0.00057 (J)			
6/14/2018			0.0012 (J)	0.00087 (J)	0.0005 (J)
9/24/2018			<0.001		
9/27/2018	<0.001				
9/28/2018		<0.001			
10/3/2018				0.00069 (J)	<0.001
2/25/2019	<0.001		<0.001		
2/26/2019		0.00054 (J)		<0.001	0.00033 (J)
4/1/2019	<0.001		<0.001		
4/2/2019		<0.001		<0.001	<0.001
9/16/2019	<0.001				
9/17/2019		0.0004 (J)	0.00033 (J)		0.00035 (J)
9/18/2019				<0.001	
2/3/2020	<0.001		<0.001		
2/4/2020				<0.001	0.00033 (J)
2/5/2020		0.00058 (J)			
3/16/2020	0.00038 (J)		0.00043 (J)		
3/17/2020		<0.001		<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001
9/22/2020	<0.001	<0.001			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.001	<0.001	<0.001	<0.001	
5/19/2016					<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016		<0.001	<0.001		
9/14/2016	0.00069 (J)			<0.001	<0.001
11/9/2016		<0.001			
11/10/2016			<0.001		
11/11/2016				<0.001	<0.001
1/18/2017		0.0008 (J)	0.001 (J)		
1/19/2017	<0.001				
1/27/2017					0.00047 (J)
2/6/2017				<0.001	
3/14/2017	<0.001	<0.001	<0.001		
3/15/2017				<0.001	<0.001
4/25/2017	<0.001	<0.001	<0.001		
4/26/2017				<0.001	<0.001
8/8/2017		<0.001	<0.001		
8/9/2017	<0.001				
8/10/2017				<0.001	<0.001
3/28/2018	<0.001	<0.001	<0.001		
3/29/2018					<0.001
3/30/2018				<0.001	
6/13/2018	<0.001	<0.001			
6/14/2018			0.0005 (J)	0.0005 (J)	<0.001
10/2/2018		<0.001			
10/3/2018	0.00085 (J)		<0.001		
10/4/2018				0.00089 (J)	0.00054 (J)
2/26/2019	<0.001	<0.001	<0.001		
2/27/2019				<0.001	<0.001
4/2/2019	<0.001	<0.001	<0.001		
4/3/2019					<0.001
4/4/2019				<0.001	
9/16/2019	<0.001	0.00036 (J)			
9/18/2019			<0.001		
9/19/2019				0.00038 (J)	<0.001
2/4/2020	<0.001	<0.001			
2/5/2020			<0.001	0.00035 (J)	<0.001
3/17/2020	<0.001	<0.001	<0.001		
3/18/2020				<0.001	<0.001
9/22/2020	<0.001	<0.001	<0.001		
9/23/2020				<0.001	
9/24/2020					0.00051 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/8/2021 10:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.00345	<0.001
5/19/2016	<0.001	<0.001			
7/19/2016				0.0031	0.0009 (J)
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	<0.001		0.0024	0.0014
11/10/2016		<0.001		0.0023	0.0021
11/11/2016	<0.001				
1/24/2017				0.0019	0.0015
1/27/2017	<0.001	0.00066 (J)			
2/8/2017			<0.001		
2/23/2017			<0.001		
3/14/2017				0.0016	
3/15/2017	<0.001	<0.001			0.0014
3/17/2017			0.0006 (J)		
4/11/2017			0.0032		
4/25/2017				0.0019	0.0014
4/26/2017	<0.001	<0.001	0.0019		
5/17/2017			0.0014		
6/7/2017			0.0021		
7/11/2017			0.00095 (J)		
8/9/2017		<0.001		0.0017	0.0013
8/10/2017	0.00048 (J)				
3/29/2018	<0.001	0.00067 (J)	<0.001		0.0014
3/30/2018				0.0018	
6/14/2018	0.00052 (J)	0.00093 (J)	<0.001	0.002	<0.001
10/3/2018				0.0024	
10/4/2018	<0.001	0.0015	0.0017		0.0013
2/27/2019	<0.001	0.00036 (J)	<0.001	0.0015	0.00046 (J)
4/3/2019	<0.001	0.00053 (J)	<0.001		
4/4/2019				0.0019	<0.001
9/18/2019		0.00039 (J)	<0.001	0.0016	<0.001
9/19/2019	<0.001				
2/5/2020	<0.001	0.00048 (J)	<0.001		
2/7/2020				0.001	<0.001
3/18/2020	<0.001			0.00088 (J)	<0.001
3/19/2020		0.00039 (J)	<0.001		
9/23/2020	<0.001			0.00061 (J)	<0.001
9/24/2020		<0.001	<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001			
5/19/2016			<0.001	<0.001
7/20/2016	0.00058 (J)		0.00055 (J)	0.00078 (J)
9/14/2016	<0.001			<0.001
9/15/2016			<0.001	
11/10/2016	0.00082 (J)			
11/11/2016		<0.001		
11/14/2016			<0.001	
1/20/2017	<0.001			
2/6/2017		<0.001	<0.001	
2/9/2017				0.0017
3/14/2017	<0.001			
3/15/2017		<0.001	<0.001	0.00047 (J)
4/11/2017		<0.001		<0.001
4/25/2017	0.00095 (J)			
4/26/2017		<0.001	<0.001	<0.001
6/7/2017		<0.001		
7/11/2017		<0.001		
8/9/2017	<0.001			
8/10/2017		<0.001	<0.001	<0.001
3/29/2018		<0.001	<0.001	<0.001
3/30/2018	<0.001			
6/14/2018	0.00076 (J)	<0.001	<0.001	<0.001
10/4/2018	0.00088 (J)	<0.001	0.0015	<0.001
2/26/2019	0.0005 (J)			
2/27/2019			0.00047 (J)	
2/28/2019		<0.001		<0.001
4/2/2019		<0.001		
4/3/2019			<0.001	<0.001
4/4/2019	<0.001			
9/18/2019	<0.001	<0.001		
9/19/2019			0.00032 (J)	<0.001
2/5/2020				<0.001
2/7/2020	0.00075 (J)	<0.001	0.0011	
3/18/2020	0.00054 (J)			
3/19/2020			0.00071 (J)	<0.001
5/4/2020		<0.001		
9/22/2020			0.0011	
9/23/2020	0.00067 (J)	<0.001		<0.001

Time Series

Constituent: Barium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	0.041	0.0221	0.0308		
5/18/2016				0.0174	0.00723
7/19/2016	0.038	0.018	0.022		
7/20/2016				0.012	0.0051
9/13/2016	0.029	0.021	0.021	0.013	0.0058
11/9/2016	0.041	0.011	0.025		
11/10/2016				0.013	0.0063
1/17/2017	0.044		0.017		
1/18/2017				0.014	0.0059
1/19/2017		0.012			
3/13/2017	0.042		0.019		
3/14/2017		0.017		0.014	0.0058
4/24/2017	0.039		0.019		
4/25/2017		0.017		0.015	0.0056
8/8/2017	0.044	0.021	0.022	0.015	
8/9/2017					0.0056
3/27/2018	0.041		0.021		
3/28/2018		0.019		0.014	0.0052
6/13/2018	0.045	0.013			
6/14/2018			0.02	0.013	0.0057
9/24/2018			0.02		
9/27/2018	0.047				
9/28/2018		0.014			
10/3/2018				0.014	0.0054
2/25/2019	0.049		0.027		
2/26/2019		0.015		0.014	0.012
4/1/2019	0.044		0.027		
4/2/2019		0.014		0.014	0.0056
9/16/2019	0.05				
9/17/2019		0.013	0.024		0.0063 (J)
9/18/2019				0.013	
2/3/2020	0.053		0.045		
2/4/2020				0.019	0.0087 (J)
2/5/2020		0.02			
3/16/2020	0.046		0.026		
3/17/2020		0.013		0.013	0.0059 (J)
9/21/2020			0.024	0.015	0.006 (J)
9/22/2020	0.048	0.015			

Time Series

Constituent: Barium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	0.0198	0.00518	0.0114	0.0391	
5/19/2016					0.031
7/19/2016	0.015	0.0049	0.012		
7/20/2016				0.028	0.029
9/13/2016		0.006	0.011		
9/14/2016	0.062			0.035	0.031
11/9/2016		0.0066			
11/10/2016			0.016		
11/11/2016				0.042	0.034
1/18/2017		0.007	0.013		
1/19/2017	0.034				
1/27/2017					0.042
2/6/2017				0.041	
3/14/2017	0.018	0.014	0.01		
3/15/2017				0.04	0.032
4/25/2017	0.018	0.0062	0.012		
4/26/2017				0.039	0.03
8/8/2017		0.0065	0.012		
8/9/2017	0.016				
8/10/2017				0.038	0.03
3/28/2018	0.015	0.0059	0.01		
3/29/2018					0.028
3/30/2018				0.042	
6/13/2018	0.016	0.0067			
6/14/2018			0.012	0.038	0.03
10/2/2018		0.0066			
10/3/2018	0.016		0.011		
10/4/2018				0.04	0.035
2/26/2019	0.02	0.011	0.013		
2/27/2019				0.04	0.04
4/2/2019	0.016	0.0069	0.011		
4/3/2019					0.035
4/4/2019				0.04	
9/16/2019	0.027	0.0073 (J)			
9/18/2019			0.012		
9/19/2019				0.038	0.033
2/4/2020	0.022	0.013			
2/5/2020			0.012	0.061	0.047
3/17/2020	0.017	0.0081 (J)	0.012		
3/18/2020				0.035	0.038
9/22/2020	0.032	0.0079 (J)	0.013		
9/23/2020				0.035	
9/24/2020					0.061

Time Series

Constituent: Barium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.0206	0.0715
5/19/2016	0.0214	0.055			
7/19/2016				0.019	0.069
7/20/2016	0.019	0.039			
9/14/2016	0.02	0.04		0.02	0.066
11/10/2016		0.04		0.02	0.069
11/11/2016	0.022				
1/24/2017				0.017	0.068
1/27/2017	0.023	0.042			
2/8/2017			0.037		
2/23/2017			0.051		
3/14/2017				0.018	
3/15/2017	0.024	0.058			0.065
3/17/2017			0.046		
4/11/2017			0.055		
4/25/2017				0.018	0.057
4/26/2017	0.004	0.054	0.042		
5/17/2017			0.052		
6/7/2017			0.06		
7/11/2017			0.038		
8/9/2017		0.055		0.02	0.069
8/10/2017	0.017				
3/29/2018	0.017	0.061	0.028		0.05
3/30/2018				0.021	
6/14/2018	0.015	0.055	0.023	0.022	0.046
10/3/2018				0.024	
10/4/2018	0.017	0.046	0.036		0.046
2/27/2019	0.016	0.054	0.028	0.023	0.028
4/3/2019	0.015	0.056	0.026		
4/4/2019				0.022	0.027
9/18/2019		0.062	0.025	0.026	0.032
9/19/2019	0.016				
2/5/2020	0.016	0.052	0.077		
2/7/2020				0.022	0.034
3/18/2020	0.016			0.021	0.034
3/19/2020		0.072	0.031		
9/23/2020	0.016			0.027	0.037
9/24/2020		0.038	0.034		

Time Series

Constituent: Barium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.0219			
5/19/2016			0.0026	<0.01
7/20/2016	0.019		0.0017 (J)	0.0014 (J)
9/14/2016	0.017			0.00092 (J)
9/15/2016			0.0039	
11/10/2016	0.02			
11/11/2016		0.0022 (J)		
11/14/2016			0.00085 (J)	
1/20/2017	0.018			
2/6/2017		0.0018 (J)	0.0011 (J)	
2/9/2017				0.0015 (J)
3/14/2017	0.019			
3/15/2017		0.0015 (J)	0.0013 (J)	0.00054 (J)
4/11/2017		0.0014 (J)		0.0007 (J)
4/25/2017	0.023			
4/26/2017		0.0014 (J)	0.00098 (J)	<0.01
6/7/2017		0.0014 (J)		
7/11/2017		0.0013 (J)		
8/9/2017	0.017			
8/10/2017		0.0012 (J)	0.0025	0.00053 (J)
3/29/2018		0.00097 (J)	0.00085 (J)	<0.01
3/30/2018	0.015			
6/14/2018	0.013	0.0011 (J)	0.0028	0.00088 (J)
10/4/2018	0.013	0.0012 (J)	0.0017 (J)	0.00076 (J)
2/26/2019	0.012			
2/27/2019			<0.01	
2/28/2019		<0.01		0.0023 (J)
4/2/2019		0.0013 (J)		
4/3/2019			0.001 (J)	<0.01
4/4/2019	0.011			
9/18/2019	0.011	<0.01		
9/19/2019			<0.01	0.0018 (J)
2/5/2020				0.0022 (J)
2/7/2020	0.011	0.0065 (J)	<0.01	
3/18/2020	0.012			
3/19/2020			<0.01	0.0021 (J)
5/4/2020		<0.01		
9/22/2020			<0.01	
9/23/2020	0.012	<0.01		<0.01

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025		
5/18/2016				<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<0.0025		
7/20/2016				<0.0025	<0.0025
9/13/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
11/9/2016	<0.0025	<0.0025	<0.0025		
11/10/2016				<0.0025	<0.0025
1/17/2017	<0.0025		<0.0025		
1/18/2017				<0.0025	<0.0025
1/19/2017		<0.0025			
3/13/2017	<0.0025		<0.0025		
3/14/2017		<0.0025		<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025		
4/25/2017		<0.0025		<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025	
8/9/2017					<0.0025
3/27/2018	<0.0025		<0.0025		
3/28/2018		<0.0025		<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025			
6/14/2018			<0.0025	<0.0025	<0.0025
9/24/2018			<0.0025		
9/27/2018	<0.0025				
9/28/2018		<0.0025			
10/3/2018				<0.0025	<0.0025
2/25/2019	<0.0025		<0.0025		
2/26/2019		<0.0025		<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025		
4/2/2019		<0.0025		<0.0025	<0.0025
9/16/2019	0.00032 (J)				
9/17/2019		<0.0025	0.00019 (J)		<0.0025
9/18/2019				<0.0025	
2/3/2020	<0.0025		<0.0025		
2/4/2020				<0.0025	<0.0025
2/5/2020		<0.0025			
3/16/2020	0.00071 (J)		0.00076 (J)		
3/17/2020		<0.0025		0.00021 (J)	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025
9/22/2020	<0.0025	<0.0025			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.0025	<0.0025	<0.0025	<0.0025	
5/19/2016					<0.0025
7/19/2016	<0.0025	<0.0025	<0.0025		
7/20/2016				<0.0025	<0.0025
9/13/2016		<0.0025	<0.0025		
9/14/2016	<0.0025			<0.0025	<0.0025
11/9/2016		<0.0025			
11/10/2016			<0.0025		
11/11/2016				<0.0025	<0.0025
1/18/2017		<0.0025	<0.0025		
1/19/2017	<0.0025				
1/27/2017					<0.0025
2/6/2017				<0.0025	
3/14/2017	<0.0025	<0.0025	<0.0025		
3/15/2017				<0.0025	<0.0025
4/25/2017	<0.0025	<0.0025	<0.0025		
4/26/2017				<0.0025	<0.0025
8/8/2017		<0.0025	<0.0025		
8/9/2017	<0.0025				
8/10/2017				<0.0025	<0.0025
3/28/2018	<0.0025	<0.0025	<0.0025		
3/29/2018					<0.0025
3/30/2018				<0.0025	
6/13/2018	<0.0025	<0.0025			
6/14/2018			<0.0025	<0.0025	<0.0025
10/2/2018		<0.0025			
10/3/2018	<0.0025		<0.0025		
10/4/2018				<0.0025	<0.0025
2/26/2019	<0.0025	<0.0025	<0.0025		
2/27/2019				<0.0025	<0.0025
4/2/2019	<0.0025	<0.0025	<0.0025		
4/3/2019					<0.0025
4/4/2019				<0.0025	
9/16/2019	0.00036 (J)	0.0011			
9/18/2019			<0.0025		
9/19/2019				<0.0025	<0.0025
2/4/2020	<0.0025	<0.0025			
2/5/2020			0.00041 (J)	<0.0025	<0.0025
3/17/2020	<0.0025	<0.0025	<0.0025		
3/18/2020				<0.0025	<0.0025
9/22/2020	<0.0025	<0.0025	<0.0025		
9/23/2020				<0.0025	
9/24/2020					<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.0025	<0.0025
5/19/2016	<0.0025	<0.0025			
7/19/2016				<0.0025	<0.0025
7/20/2016	<0.0025	<0.0025			
9/14/2016	<0.0025	<0.0025		<0.0025	<0.0025
11/10/2016		<0.0025		<0.0025	<0.0025
11/11/2016	<0.0025				
1/24/2017				<0.0025	<0.0025
1/27/2017	<0.0025	<0.0025			
2/8/2017			<0.0025		
2/23/2017			<0.0025		
3/14/2017				<0.0025	
3/15/2017	<0.0025	<0.0025			<0.0025
3/17/2017			<0.0025		
4/11/2017			<0.0025		
4/25/2017				<0.0025	<0.0025
4/26/2017	<0.0025	<0.0025	<0.0025		
5/17/2017			<0.0025		
6/7/2017			<0.0025		
7/11/2017			<0.0025		
8/9/2017		<0.0025		<0.0025	<0.0025
8/10/2017	<0.0025				
3/29/2018	<0.0025	<0.0025	<0.0025		<0.0025
3/30/2018				<0.0025	
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018				<0.0025	
10/4/2018	<0.0025	<0.0025	<0.0025		<0.0025
2/27/2019	<0.0025	<0.0025	0.00017 (J)	<0.0025	0.00022 (J)
4/3/2019	<0.0025	<0.0025	<0.0025		
4/4/2019				<0.0025	<0.0025
9/18/2019		<0.0025	0.00032 (J)	<0.0025	<0.0025
9/19/2019	<0.0025				
2/5/2020	<0.0025	<0.0025	0.00024 (J)		
2/7/2020				<0.0025	<0.0025
3/18/2020	<0.0025			<0.0025	<0.0025
3/19/2020		<0.0025	0.00025 (J)		
9/23/2020	<0.0025			<0.0025	<0.0025
9/24/2020		<0.0025	0.00024 (J)		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0025			
5/19/2016			0.00102 (J)	<0.0025
7/20/2016	<0.0025		0.0014 (J)	<0.0025
9/14/2016	<0.0025			<0.0025
9/15/2016			0.00093 (J)	
11/10/2016	<0.0025			
11/11/2016		<0.0025		
11/14/2016			0.0014 (J)	
1/20/2017	<0.0025			
2/6/2017		<0.0025	0.0017 (J)	
2/9/2017				0.00041 (J)
3/14/2017	<0.0025			
3/15/2017		<0.0025	0.0016 (J)	<0.0025
4/11/2017		<0.0025		<0.0025
4/25/2017	<0.0025			
4/26/2017		<0.0025	0.0017 (J)	<0.0025
6/7/2017		<0.0025		
7/11/2017		<0.0025		
8/9/2017	<0.0025			
8/10/2017		<0.0025	0.0017 (J)	0.00034 (J)
3/29/2018		<0.0025	0.0018 (J)	<0.0025
3/30/2018	<0.0025			
6/14/2018	<0.0025	<0.0025	0.0015 (J)	<0.0025
10/4/2018	<0.0025	<0.0025	0.0019 (J)	0.00036 (J)
2/26/2019	<0.0025			
2/27/2019			0.0021 (J)	
2/28/2019		<0.0025		0.00031 (J)
4/2/2019		<0.0025		
4/3/2019			0.0019 (J)	<0.0025
4/4/2019	<0.0025			
9/18/2019	<0.0025	<0.0025		
9/19/2019			0.0019	0.00041 (J)
2/5/2020				0.0004 (J)
2/7/2020	<0.0025	<0.0025	0.0023	
3/18/2020	<0.0025			
3/19/2020			0.0028	0.00056 (J)
5/4/2020		<0.0025		
9/22/2020			0.0025	
9/23/2020	<0.0025	<0.0025		0.00034 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.08	<0.08	<0.08		
5/18/2016				<0.08	<0.08
7/19/2016	<0.08	<0.08	<0.08		
7/20/2016				<0.08	<0.08
9/13/2016	<0.08	<0.08	<0.08	<0.08	<0.08
11/9/2016	<0.08	<0.08	<0.08		
11/10/2016				<0.08	<0.08
1/17/2017	<0.08		<0.08		
1/18/2017				<0.08	<0.08
1/19/2017		<0.08			
3/13/2017	<0.08		<0.08		
3/14/2017		<0.08		<0.08	<0.08
4/24/2017	<0.08		<0.08		
4/25/2017		<0.08		<0.08	<0.08
8/8/2017	<0.08	<0.08	<0.08	<0.08	
8/9/2017					<0.08
10/10/2017	<0.08		<0.08		
10/11/2017		<0.08		<0.08	<0.08
6/13/2018	<0.08	<0.08			
6/14/2018			<0.08	<0.08	<0.08
9/24/2018			<0.08		
9/27/2018	<0.08				
9/28/2018		<0.08			
10/3/2018				<0.08	<0.08
4/1/2019	<0.08		<0.08		
4/2/2019		<0.08		<0.08	<0.08
9/16/2019	<0.08				
9/17/2019		<0.08	<0.08		<0.08
9/18/2019				<0.08	
3/16/2020	<0.08		0.048 (J)		
3/17/2020		<0.08		<0.08	<0.08
9/21/2020			<0.08	<0.08	<0.08
9/22/2020	<0.08	<0.08			

Time Series

Constituent: Boron (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.08	<0.08	<0.08	<0.08	
5/19/2016					<0.08
7/19/2016	<0.08	<0.08	<0.08		
7/20/2016				<0.08	<0.08
9/13/2016		<0.08	<0.08		
9/14/2016	<0.08			<0.08	<0.08
11/9/2016		<0.08			
11/10/2016			<0.08		
11/11/2016				<0.08	<0.08
1/18/2017		<0.08	<0.08		
1/19/2017	<0.08				
1/27/2017					0.021 (J)
2/6/2017				<0.08	
3/14/2017	<0.08	<0.08	<0.08		
3/15/2017				0.032 (J)	0.058
4/25/2017	<0.08	<0.08	<0.08		
4/26/2017				<0.08	<0.08
8/8/2017		<0.08	<0.08		
8/9/2017	<0.08				
8/10/2017				<0.08	<0.08
10/11/2017	<0.08	<0.08	<0.08		
10/12/2017				<0.08	<0.08
6/13/2018	<0.08	<0.08			
6/14/2018			<0.08	<0.08	<0.08
10/2/2018		<0.08			
10/3/2018	<0.08		<0.08		
10/4/2018				<0.08	<0.08
4/2/2019	<0.08	<0.08	<0.08		
4/3/2019					<0.08
4/4/2019				0.024 (J)	
9/16/2019	<0.08	<0.08			
9/18/2019			<0.08		
9/19/2019				<0.08	<0.08
3/17/2020	<0.08	<0.08	<0.08		
3/18/2020				0.049 (J)	<0.08
9/22/2020	<0.08	<0.08	<0.08		
9/23/2020				<0.08	
9/24/2020					<0.08

Time Series

Constituent: Boron (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.08	4.48
5/19/2016	<0.08	0.0252 (J)			
7/19/2016				<0.08	4.7
7/20/2016	<0.08	<0.08			
9/14/2016	<0.08	<0.08		<0.08	5.8
11/10/2016		<0.08		<0.08	6.7
11/11/2016	<0.08				
1/24/2017				<0.08	6.3
1/27/2017	0.047 (J)	0.033 (J)			
2/8/2017			<0.08		
2/23/2017			<0.08		
3/14/2017				<0.08	
3/15/2017	0.024 (J)	<0.08			5.9
3/17/2017			<0.08		
4/11/2017			<0.08		
4/25/2017				<0.08	6.2
4/26/2017	<0.08	<0.08	<0.08		
5/17/2017			<0.08		
6/7/2017			<0.08		
7/11/2017			<0.08		
8/9/2017		<0.08		<0.08	6.3
8/10/2017	<0.08				
10/11/2017			<0.08	<0.08	6.8
10/12/2017	<0.08	<0.08			
6/14/2018	<0.08	<0.08	<0.08	<0.08	5.4
10/3/2018				<0.08	
10/4/2018	<0.08	<0.08	<0.08		5.5
4/3/2019	<0.08	<0.08	<0.08		
4/4/2019				<0.08	3.2
9/18/2019		<0.08	<0.08	<0.08	2.1
9/19/2019	<0.08				
3/18/2020	0.039 (J)			0.071 (J)	2
3/19/2020		0.053 (J)	0.039 (J)		
9/23/2020	<0.08			<0.08	1.5
9/24/2020		<0.08	<0.08		

Time Series

Constituent: Boron (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.08			
5/19/2016			1.42	0.314
7/20/2016	<0.08		1.4	0.25
9/14/2016	<0.08			0.3
9/15/2016			1.2	
11/10/2016	<0.08			
11/11/2016		<0.08		
11/14/2016			1.3	
1/20/2017	<0.08			
2/6/2017		<0.08	1.8	
2/9/2017				0.61
3/14/2017	<0.08			
3/15/2017		0.034 (J)	1.7	0.42
4/11/2017		<0.08		0.37
4/25/2017	<0.08			
4/26/2017		<0.08	2	0.38
6/7/2017		<0.08		
7/11/2017		<0.08		
8/9/2017	<0.08			
8/10/2017		<0.08	1.8	0.29
10/11/2017	<0.08			
10/12/2017		<0.08	1.8	0.36
6/14/2018	<0.08	<0.08	1.7	0.39
10/4/2018	<0.08	<0.08	1.9	0.37
4/2/2019		<0.08		
4/3/2019			1.7	0.35
4/4/2019	0.049 (J)			
9/18/2019	<0.08	<0.08		
9/19/2019			1.7	0.39
3/18/2020	0.049 (J)			
3/19/2020			2.2	0.55
5/4/2020		<0.08		
9/22/2020			2.5	
9/23/2020	<0.08	<0.08		0.68

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025		
5/18/2016				<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<0.0025		
7/20/2016				<0.0025	<0.0025
9/13/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
11/9/2016	<0.0025	<0.0025	<0.0025		
11/10/2016				<0.0025	<0.0025
1/17/2017	<0.0025		<0.0025		
1/18/2017				<0.0025	<0.0025
1/19/2017		<0.0025			
3/13/2017	<0.0025		<0.0025		
3/14/2017		<0.0025		<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025		
4/25/2017		<0.0025		<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025	
8/9/2017					<0.0025
3/27/2018	<0.0025		<0.0025		
3/28/2018		<0.0025		<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025			
6/14/2018			<0.0025	<0.0025	<0.0025
9/24/2018			<0.0025		
9/27/2018	<0.0025				
9/28/2018		<0.0025			
10/3/2018				<0.0025	<0.0025
2/25/2019	<0.0025		<0.0025		
2/26/2019		<0.0025		<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025		
4/2/2019		<0.0025		<0.0025	<0.0025
9/16/2019	<0.0025				
9/17/2019		<0.0025	<0.0025		<0.0025
9/18/2019				<0.0025	
2/3/2020	<0.0025		<0.0025		
2/4/2020				<0.0025	<0.0025
2/5/2020		<0.0025			
3/16/2020	<0.0025		<0.0025		
3/17/2020		<0.0025		<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025
9/22/2020	<0.0025	<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.0025	<0.0025	<0.0025	<0.0025	
5/19/2016					<0.0025
7/19/2016	<0.0025	<0.0025	<0.0025		
7/20/2016				<0.0025	<0.0025
9/13/2016		<0.0025	<0.0025		
9/14/2016	<0.0025			<0.0025	<0.0025
11/9/2016		<0.0025			
11/10/2016			<0.0025		
11/11/2016				<0.0025	<0.0025
1/18/2017		<0.0025	<0.0025		
1/19/2017	<0.0025				
1/27/2017					<0.0025
2/6/2017				<0.0025	
3/14/2017	<0.0025	<0.0025	<0.0025		
3/15/2017				<0.0025	<0.0025
4/25/2017	<0.0025	<0.0025	<0.0025		
4/26/2017				<0.0025	<0.0025
8/8/2017		<0.0025	<0.0025		
8/9/2017	<0.0025				
8/10/2017				<0.0025	<0.0025
3/28/2018	<0.0025	<0.0025	<0.0025		
3/29/2018					<0.0025
3/30/2018				<0.0025	
6/13/2018	<0.0025	<0.0025			
6/14/2018			<0.0025	<0.0025	<0.0025
10/2/2018		<0.0025			
10/3/2018	<0.0025		<0.0025		
10/4/2018				<0.0025	<0.0025
2/26/2019	<0.0025	<0.0025	<0.0025		
2/27/2019				<0.0025	<0.0025
4/2/2019	<0.0025	<0.0025	<0.0025		
4/3/2019					<0.0025
4/4/2019				<0.0025	
9/16/2019	<0.0025	<0.0025			
9/18/2019			<0.0025		
9/19/2019				0.00021 (J)	<0.0025
2/4/2020	<0.0025	<0.0025			
2/5/2020			<0.0025	<0.0025	<0.0025
3/17/2020	<0.0025	<0.0025	<0.0025		
3/18/2020				<0.0025	<0.0025
9/22/2020	<0.0025	<0.0025	<0.0025		
9/23/2020				<0.0025	
9/24/2020					<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.0025	0.000362 (J)
5/19/2016	<0.0025	<0.0025			
7/19/2016				<0.0025	<0.0025
7/20/2016	<0.0025	<0.0025			
9/14/2016	<0.0025	<0.0025		<0.0025	0.00037 (J)
11/10/2016		<0.0025		<0.0025	<0.0025
11/11/2016	<0.0025				
1/24/2017				<0.0025	0.00055 (J)
1/27/2017	<0.0025	<0.0025			
2/8/2017			<0.0025		
2/23/2017			<0.0025		
3/14/2017				<0.0025	
3/15/2017	<0.0025	<0.0025			0.00067 (J)
3/17/2017			<0.0025		
4/11/2017			<0.0025		
4/25/2017				<0.0025	0.00058 (J)
4/26/2017	<0.0025	<0.0025	<0.0025		
5/17/2017			<0.0025		
6/7/2017			<0.0025		
7/11/2017			<0.0025		
8/9/2017		<0.0025		<0.0025	0.00054 (J)
8/10/2017	<0.0025				
3/29/2018	<0.0025	<0.0025	<0.0025		0.00082 (J)
3/30/2018				<0.0025	
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	0.0007 (J)
10/3/2018				<0.0025	
10/4/2018	<0.0025	<0.0025	<0.0025		0.00065 (J)
2/27/2019	<0.0025	<0.0025	<0.0025	<0.0025	0.00055 (J)
4/3/2019	<0.0025	<0.0025	<0.0025		
4/4/2019				<0.0025	0.00047 (J)
9/18/2019		<0.0025	<0.0025	<0.0025	0.00017 (J)
9/19/2019	<0.0025				
2/5/2020	<0.0025	<0.0025	<0.0025		
2/7/2020				<0.0025	<0.0025
3/18/2020	<0.0025			<0.0025	0.00022 (J)
3/19/2020		<0.0025	<0.0025		
9/23/2020	<0.0025			<0.0025	<0.0025
9/24/2020		<0.0025	<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0025			
5/19/2016			<0.0025	<0.0025
7/20/2016	<0.0025		<0.0025	<0.0025
9/14/2016	<0.0025			<0.0025
9/15/2016			<0.0025	
11/10/2016	<0.0025			
11/11/2016		<0.0025		
11/14/2016			<0.0025	
1/20/2017	<0.0025			
2/6/2017		<0.0025	<0.0025	
2/9/2017				<0.0025
3/14/2017	<0.0025			
3/15/2017		<0.0025	<0.0025	<0.0025
4/11/2017		<0.0025		<0.0025
4/25/2017	<0.0025			
4/26/2017		<0.0025	<0.0025	<0.0025
6/7/2017		<0.0025		
7/11/2017		<0.0025		
8/9/2017	<0.0025			
8/10/2017		<0.0025	<0.0025	<0.0025
3/29/2018		<0.0025	<0.0025	<0.0025
3/30/2018	<0.0025			
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025
10/4/2018	<0.0025	<0.0025	<0.0025	<0.0025
2/26/2019	<0.0025			
2/27/2019			<0.0025	
2/28/2019		<0.0025		<0.0025
4/2/2019		<0.0025		
4/3/2019			<0.0025	<0.0025
4/4/2019	<0.0025			
9/18/2019	<0.0025	<0.0025		
9/19/2019			<0.0025	<0.0025
2/5/2020				<0.0025
2/7/2020	<0.0025	<0.0025	<0.0025	
3/18/2020	<0.0025			
3/19/2020			<0.0025	<0.0025
5/4/2020		<0.0025		
9/22/2020			<0.0025	
9/23/2020	<0.0025	<0.0025		<0.0025

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	0.927	23.7	12.2		
5/18/2016				2.1	17.9
7/19/2016	1	23	13		
7/20/2016				1.7	15
9/13/2016	0.44	23	13	1.3	16
11/9/2016	1.1	6.7	19		
11/10/2016				1.6	15
1/17/2017	1.4		28		
1/18/2017				1.7	17
1/19/2017		8.5			
3/13/2017	1.1		14		
3/14/2017		13		1.8	17
4/24/2017	1.1		12		
4/25/2017		23		2	17
8/8/2017	1.1	24	18	2	
8/9/2017					15
10/10/2017	1.2		21		
10/11/2017		23		2.1	17
6/13/2018	1.1	11			
6/14/2018			12	2	15
9/24/2018			11		
9/27/2018	1.2				
9/28/2018		11			
10/3/2018				1.8	16
4/1/2019	1		12		
4/2/2019		20		1.8	15
9/16/2019	1.3				
9/17/2019		10	13		16
9/18/2019				1.6	
3/16/2020	1.1		10		
3/17/2020		10		1.7	15
9/21/2020			13	1.8	16
9/22/2020	1.2	19			

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	1.7	27	1.36	7.17	
5/19/2016					1.95
7/19/2016	1.5	23	0.88		
7/20/2016				7	1.5
9/13/2016		25	0.93		
9/14/2016	52			7.7	1.8
11/9/2016		25			
11/10/2016			6.1		
11/11/2016				8.2	1.7
1/18/2017		26	10		
1/19/2017	13				
1/27/2017					3.5
2/6/2017				9.1	
3/14/2017	1.6	20	1.3		
3/15/2017				9	3.8
4/25/2017	1.5	28	1.9		
4/26/2017				8.1	4
8/8/2017		26	4.8		
8/9/2017	1.3				
8/10/2017				8.1	3.5
10/11/2017	1.5	29	0.93		
10/12/2017				8.6	2.7
6/13/2018	1.2	25			
6/14/2018			0.94	7.7	2.2
10/2/2018		26			
10/3/2018	1.4		1.2		
10/4/2018				8.5	2
4/2/2019	1.1	25	1.1		
4/3/2019					1.7
4/4/2019				7.9	
9/16/2019	36	25			
9/18/2019			1.5		
9/19/2019				7.5	1.4
3/17/2020	1.4	26	0.82		
3/18/2020				7.5	1.6
9/22/2020	58	25	0.89		
9/23/2020				7.7	
9/24/2020					5.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				32.5	168
5/19/2016	15.8	11.4			
7/19/2016				30	190
7/20/2016	14	7.1			
9/14/2016	16	7.4		37	230
11/10/2016		6.4		29	240
11/11/2016	15				
1/24/2017				28	280
1/27/2017	16	6.2			
2/8/2017			3.2		
2/23/2017			4.1		
3/14/2017				29	
3/15/2017	16	6.7			260
3/17/2017			2.4		
4/11/2017			4.1		
4/25/2017				32	300
4/26/2017	3	6.5	2.5		
5/17/2017			5.2		
6/7/2017			5.2		
7/11/2017			2.3		
8/9/2017		7		30	350
8/10/2017	15				
10/11/2017			3.8	31	360
10/12/2017	16	7			
6/14/2018	13	5.5	1.1	29	260
10/3/2018				31	
10/4/2018	15	5.9	2		250
4/3/2019	14	4.7	0.84		
4/4/2019				30	110
9/18/2019		4.9	0.85	31	62
9/19/2019	14				
3/18/2020	14			30	66
3/19/2020		5	0.89		
9/23/2020	13			32	43
9/24/2020		1.4	0.99		

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	8.24			
5/19/2016			31.4	8.53
7/20/2016	11		28	8.2
9/14/2016	12			8.8
9/15/2016			27	
11/10/2016	11			
11/11/2016		12		
11/14/2016			32	
1/20/2017	10			
2/6/2017		11	41	
2/9/2017				10
3/14/2017	8.8			
3/15/2017		10	38	8.6
4/11/2017		11		8.6
4/25/2017	12			
4/26/2017		8.4	39	7.1
6/7/2017		9		
7/11/2017		9.5		
8/9/2017	11			
8/10/2017		8.8	53	7.5
10/11/2017	10			
10/12/2017		9.5	60	8.2
6/14/2018	6.2	8.9	52	7.5
10/4/2018	6.4	10	65	8
4/2/2019		11		
4/3/2019			61	7.2
4/4/2019	5.6			
9/18/2019	5.5	8.8		
9/19/2019			57	8.1
3/18/2020	6.3			
3/19/2020			79	9.3
5/4/2020		15		
9/22/2020			81	
9/23/2020	5.9	13		10

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	3.8	6.05	2.5		
5/18/2016				1.92	1.45
7/19/2016	3.9	4	2.6		
7/20/2016				1.8	1.4
9/13/2016	3.6	3.1	2.4	1.7	1.4
11/9/2016	3.9	2.3	2.3		
11/10/2016				1.6	1.3
1/17/2017	3.8		2.3		
1/18/2017				1.7	1.3
1/19/2017		2			
3/13/2017	3.4		2.2		
3/14/2017		1.9		1.6	1.2
4/24/2017	3.4		2.2		
4/25/2017		1.9		1.6	1.2
8/8/2017	3.6	2	2.3	1.7	
8/9/2017					1.2
10/10/2017	3.6		2.5		
10/11/2017		1.9		1.6	1.2
6/13/2018	3.8	2			
6/14/2018			2.3	1.6	1.2
9/24/2018			2.4		
9/27/2018	4				
9/28/2018		2.1			
10/3/2018				1.6	1.2
4/1/2019	4		2.4		
4/2/2019		2.6		1.7	1.2
9/16/2019	4				
9/17/2019		2	2.4		1.2
9/18/2019				1.7	
3/16/2020	4.3		2.7		
3/17/2020		2.3		1.8	1.4
9/21/2020			2.5	1.5	1.2
9/22/2020	4	2.1			

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	2.14	1.58	2.06	1.45	
5/19/2016					3.21
7/19/2016	2.4	1.6	2.1		
7/20/2016				1.6	3.4
9/13/2016		1.4	2		
9/14/2016	2.1			1.5	3.1
11/9/2016		1.5			
11/10/2016			1.8		
11/11/2016				1.5	3.2
1/18/2017		1.5	1.8		
1/19/2017	1.8				
1/27/2017					3.4
2/6/2017				1.4	
3/14/2017	2	2.5	1.8		
3/15/2017				1.4	3.1
4/25/2017	1.8	1.3	1.8		
4/26/2017				1.3	3.1
8/8/2017		1.4	1.9		
8/9/2017	1.9				
8/10/2017				1.4	3.1
10/11/2017	2.1	1.3	1.8		
10/12/2017				1.3	3
6/13/2018	1.7	1.4			
6/14/2018			1.7	1.3	3
10/2/2018		1.4			
10/3/2018	1.8		1.8		
10/4/2018				1.3	3.1
4/2/2019	1.7	1.5	1.9		
4/3/2019					3.3
4/4/2019				1.4	
9/16/2019	1.8	1.5			
9/18/2019			2		
9/19/2019				1.5	3.2
3/17/2020	1.6	1.7	2.2		
3/18/2020				1.5	3.2
9/22/2020	1.5	1.4	1.8		
9/23/2020				1.3	
9/24/2020					1

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				4.59	217
5/19/2016	3.8	2.26			
7/19/2016				5.9	250
7/20/2016	3.8	1.9			
9/14/2016	3.7	1.6		7.9	260
11/10/2016		1.4		6.5	290
11/11/2016	3.5				
1/24/2017				4.1	310
1/27/2017	3.1	1.4			
2/8/2017			2.5		
2/23/2017			4.3		
3/14/2017				4.4	
3/15/2017	3.2	1.4			330
3/17/2017			4.8		
4/11/2017			3.8		
4/25/2017				4	330
4/26/2017	3.2	1.3	4.8		
5/17/2017			3.9		
6/7/2017			3.2		
7/11/2017			4.1		
8/9/2017		1.4		3.6	330
8/10/2017	3.4				
10/11/2017			2.2	5	320
10/12/2017	3.1	1.2			
6/14/2018	3	1.2	2.8	4.3	290
10/3/2018				4.8	
10/4/2018	3.1	1.2	2.2		290
4/3/2019	3	1.2	2.4		
4/4/2019				3.7	170
9/18/2019		1.2	2.2	3.2	100
9/19/2019	3.2				
3/18/2020	3.2			1.7	93
3/19/2020		1.3	1.9		
9/23/2020	2.8			1.5	58
9/24/2020		1.6	3.1		

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	2.72			
5/19/2016			17.5	1.46
7/20/2016	1.9		19	1.5
9/14/2016	1.6			1.4
9/15/2016			19	
11/10/2016	1.6			
11/11/2016		2.6		
11/14/2016			25	
1/20/2017	1.5			
2/6/2017		2.6	33	
2/9/2017				1.5
3/14/2017	1.5			
3/15/2017		2.4	38	1.3
4/11/2017		2.3		1.2
4/25/2017	1.8			
4/26/2017		2.3	42	1.2
6/7/2017		2.5		
7/11/2017		2.3		
8/9/2017	1.4			
8/10/2017		2.5	48	1.3
10/11/2017	1.5			
10/12/2017		2.3	60	1.4
6/14/2018	1.5	2.4	58	1.2
10/4/2018	1.5	2.6	300	1.2
4/2/2019		2.5		
4/3/2019			70	2
4/4/2019	1.4			
9/18/2019	1.5	2.7		
9/19/2019			70	1.5
3/18/2020	1.5			
3/19/2020			98	2.1
5/4/2020		2.8		
9/22/2020			100	
9/23/2020	1.2	2.6		2.4

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.002	<0.002	<0.002		
5/18/2016				<0.002	<0.002
7/19/2016	<0.002	<0.002	<0.002		
7/20/2016				<0.002	<0.002
9/13/2016	<0.002	<0.002	<0.002	<0.002	<0.002
11/9/2016	<0.002	<0.002	<0.002		
11/10/2016				<0.002	<0.002
1/17/2017	<0.002		<0.002		
1/18/2017				<0.002	<0.002
1/19/2017		<0.002			
3/13/2017	<0.002		<0.002		
3/14/2017		<0.002		<0.002	<0.002
4/24/2017	<0.002		<0.002		
4/25/2017		<0.002		<0.002	<0.002
8/8/2017	<0.002	<0.002	<0.002	<0.002	
8/9/2017					<0.002
3/27/2018	<0.002		<0.002		
3/28/2018		0.0049		<0.002	<0.002
6/13/2018	<0.002	<0.002			
6/14/2018			<0.002	<0.002	<0.002
9/24/2018			<0.002		
9/27/2018	<0.002				
9/28/2018		<0.002			
10/3/2018				<0.002	<0.002
2/25/2019	0.0016 (J)		<0.002		
2/26/2019		0.0016 (J)		<0.002	0.0021 (J)
4/1/2019	<0.002		<0.002		
4/2/2019		<0.002		<0.002	<0.002
9/16/2019	0.0016 (J)				
9/17/2019		<0.002	0.0017 (J)		<0.002
9/18/2019				<0.002	
2/3/2020	<0.002		<0.002		
2/4/2020				<0.002	<0.002
2/5/2020		<0.002			
3/16/2020	<0.002		<0.002		
3/17/2020		<0.002		<0.002	<0.002
9/21/2020			<0.002	<0.002	<0.002
9/22/2020	<0.002	<0.002			

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.002	<0.002	<0.002	<0.002	
5/19/2016					<0.002
7/19/2016	<0.002	<0.002	<0.002		
7/20/2016				0.0012 (J)	<0.002
9/13/2016		<0.002	<0.002		
9/14/2016	0.0031			<0.002	<0.002
11/9/2016		<0.002			
11/10/2016			<0.002		
11/11/2016				0.0015 (J)	<0.002
1/18/2017		<0.002	<0.002		
1/19/2017	<0.002				
1/27/2017					<0.002
2/6/2017				0.0011 (J)	
3/14/2017	<0.002	<0.002	<0.002		
3/15/2017				0.0015 (J)	<0.002
4/25/2017	<0.002	<0.002	<0.002		
4/26/2017				0.0013 (J)	0.0011 (J)
8/8/2017		<0.002	<0.002		
8/9/2017	<0.002				
8/10/2017				0.0016 (J)	<0.002
3/28/2018	<0.002	<0.002	<0.002		
3/29/2018					0.0012 (J)
3/30/2018				0.0027	
6/13/2018	<0.002	<0.002			
6/14/2018			<0.002	0.0023 (J)	<0.002
10/2/2018		<0.002			
10/3/2018	<0.002		<0.002		
10/4/2018				0.0031	<0.002
2/26/2019	<0.002	0.0023 (J)	<0.002		
2/27/2019				0.0031	0.0021 (J)
4/2/2019	<0.002	<0.002	<0.002		
4/3/2019					<0.002
4/4/2019				0.0021 (J)	
9/16/2019	<0.002	<0.002			
9/18/2019			<0.002		
9/19/2019				0.0022	<0.002
2/4/2020	<0.002	<0.002			
2/5/2020			<0.002	0.0022	<0.002
3/17/2020	<0.002	<0.002	<0.002		
3/18/2020				<0.002	<0.002
9/22/2020	<0.002	<0.002	<0.002		
9/23/2020				0.0018 (J)	
9/24/2020					<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.002	<0.002
5/19/2016	<0.002	<0.002			
7/19/2016				<0.002	<0.002
7/20/2016	<0.002	<0.002			
9/14/2016	<0.002	<0.002		<0.002	<0.002
11/10/2016		<0.002		<0.002	<0.002
11/11/2016	<0.002				
1/24/2017				<0.002	<0.002
1/27/2017	<0.002	<0.002			
2/8/2017			<0.002		
2/23/2017			<0.002		
3/14/2017				<0.002	
3/15/2017	<0.002	<0.002			<0.002
3/17/2017			<0.002		
4/11/2017			<0.002		
4/25/2017				<0.002	<0.002
4/26/2017	<0.002	<0.002	<0.002		
5/17/2017			<0.002		
6/7/2017			<0.002		
7/11/2017			<0.002		
8/9/2017		<0.002		<0.002	<0.002
8/10/2017	<0.002				
3/29/2018	<0.002	<0.002	<0.002		<0.002
3/30/2018				<0.002	
6/14/2018	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018				<0.002	
10/4/2018	<0.002	<0.002	<0.002		<0.002
2/27/2019	<0.002	0.0018 (J)	<0.002	0.0015 (J)	<0.002
4/3/2019	<0.002	<0.002	<0.002		
4/4/2019				<0.002	<0.002
9/18/2019		<0.002	<0.002	<0.002	<0.002
9/19/2019	<0.002				
2/5/2020	<0.002	<0.002	0.0017 (J)		
2/7/2020				<0.002	<0.002
3/18/2020	<0.002			<0.002	<0.002
3/19/2020		<0.002	<0.002		
9/23/2020	<0.002			<0.002	<0.002
9/24/2020		<0.002	<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.002			
5/19/2016			<0.002	<0.002
7/20/2016	<0.002		<0.002	<0.002
9/14/2016	<0.002			<0.002
9/15/2016			<0.002	
11/10/2016	<0.002			
11/11/2016		<0.002		
11/14/2016			<0.002	
1/20/2017	<0.002			
2/6/2017		<0.002	<0.002	
2/9/2017				<0.002
3/14/2017	<0.002			
3/15/2017		<0.002	<0.002	<0.002
4/11/2017		<0.002		<0.002
4/25/2017	<0.002			
4/26/2017		<0.002	<0.002	<0.002
6/7/2017		<0.002		
7/11/2017		<0.002		
8/9/2017	<0.002			
8/10/2017		<0.002	<0.002	<0.002
3/29/2018		<0.002	<0.002	<0.002
3/30/2018	<0.002			
6/14/2018	<0.002	<0.002	<0.002	<0.002
10/4/2018	<0.002	<0.002	<0.002	<0.002
2/26/2019	<0.002			
2/27/2019			<0.002	
2/28/2019		<0.002		0.0025
4/2/2019		<0.002		
4/3/2019			<0.002	<0.002
4/4/2019	<0.002			
9/18/2019	<0.002	<0.002		
9/19/2019			<0.002	<0.002
2/5/2020				<0.002
2/7/2020	<0.002	<0.002	<0.002	
3/18/2020	<0.002			
3/19/2020			<0.002	<0.002
5/4/2020		<0.002		
9/22/2020			<0.002	
9/23/2020	<0.002	<0.002		<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025		
5/18/2016				<0.0025	<0.0025
7/19/2016	0.0014 (J)	0.0019 (J)	0.00086 (J)		
7/20/2016				<0.0025	<0.0025
9/13/2016	0.0015 (J)	0.0032	0.00095 (J)	<0.0025	<0.0025
11/9/2016	0.0012 (J)	0.0039	0.0011 (J)		
11/10/2016				<0.0025	<0.0025
1/17/2017	0.001 (J)		<0.0025		
1/18/2017				<0.0025	<0.0025
1/19/2017		0.0032			
3/13/2017	0.0011 (J)		0.00087 (J)		
3/14/2017		0.0045		<0.0025	<0.0025
4/24/2017	0.001 (J)		0.0014 (J)		
4/25/2017		0.002 (J)		<0.0025	<0.0025
8/8/2017	0.0011 (J)	0.0031	0.0012 (J)	<0.0025	
8/9/2017					<0.0025
3/27/2018	0.00091 (J)		0.0012 (J)		
3/28/2018		0.0013 (J)		<0.0025	<0.0025
6/13/2018	0.00094 (J)	0.0021 (J)			
6/14/2018			0.00085 (J)	<0.0025	<0.0025
9/24/2018			0.00085 (J)		
9/27/2018	0.00085 (J)				
9/28/2018		0.0024 (J)			
10/3/2018				<0.0025	<0.0025
2/25/2019	0.00085 (J)		0.00083 (J)		
2/26/2019		0.00026 (J)		<0.0025	0.00029 (J)
4/1/2019	0.00079 (J)		0.00082 (J)		
4/2/2019		<0.0025		<0.0025	<0.0025
9/16/2019	0.00082				
9/17/2019		0.0012	0.00063		<0.0025
9/18/2019				<0.0025	
2/3/2020	0.00062		0.00068		
2/4/2020				<0.0025	<0.0025
2/5/2020		0.0027			
3/16/2020	0.00092 (J)		0.00066 (J)		
3/17/2020		0.0017 (J)		<0.0025	<0.0025
9/21/2020			0.00054 (J)	<0.0025	<0.0025
9/22/2020	0.00072 (J)	0.00033 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/8/2021 10:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.0025	<0.0025	<0.0025	0.00201 (J)	
5/19/2016					<0.0025
7/19/2016	0.0014 (J)	<0.0025	<0.0025		
7/20/2016				0.00066 (J)	0.0025
9/13/2016		<0.0025	<0.0025		
9/14/2016	0.013			0.00095 (J)	<0.0025
11/9/2016		<0.0025			
11/10/2016			0.00055 (J)		
11/11/2016				0.001 (J)	0.00052 (J)
1/18/2017		<0.0025	0.00097 (J)		
1/19/2017	0.064 (O)				
1/27/2017					0.00049 (J)
2/6/2017				0.00072 (J)	
3/14/2017	0.0066	0.0018 (J)	<0.0025		
3/15/2017				0.00062 (J)	0.00064 (J)
4/25/2017	0.0026	<0.0025	<0.0025		
4/26/2017				0.0014 (J)	0.001 (J)
8/8/2017		<0.0025	<0.0025		
8/9/2017	0.0025				
8/10/2017				<0.0025	0.0011 (J)
3/28/2018	0.0015 (J)	<0.0025	<0.0025		
3/29/2018					<0.0025
3/30/2018				0.0035	
6/13/2018	0.0011 (J)	<0.0025			
6/14/2018			<0.0025	0.0012 (J)	<0.0025
10/2/2018		<0.0025			
10/3/2018	0.0013 (J)		<0.0025		
10/4/2018				0.00086 (J)	<0.0025
2/26/2019	0.0006 (J)	0.00031 (J)	0.00017 (J)		
2/27/2019				0.0005 (J)	0.0022 (J)
4/2/2019	0.00046 (J)	<0.0025	<0.0025		
4/3/2019					0.00081 (J)
4/4/2019				0.0017 (J)	
9/16/2019	0.0035	9.1E-05 (J)			
9/18/2019			0.0002 (J)		
9/19/2019				0.0023	<0.0025
2/4/2020	0.00082	<0.0025			
2/5/2020			0.00021 (J)	0.0013	0.00026 (J)
3/17/2020	0.00066 (J)	0.00014 (J)	0.00065 (J)		
3/18/2020				0.0012 (J)	0.00069 (J)
9/22/2020	0.0065	<0.0025	0.00015 (J)		
9/23/2020				0.00062 (J)	
9/24/2020					<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.0025	0.0069
5/19/2016	<0.0025	<0.0025			
7/19/2016				<0.0025	0.012
7/20/2016	0.0013 (J)	<0.0025			
9/14/2016	0.00098 (J)	<0.0025		<0.0025	0.013
11/10/2016		<0.0025		<0.0025	0.016
11/11/2016	0.0017 (J)				
1/24/2017				<0.0025	0.015
1/27/2017	0.0022 (J)	<0.0025			
2/8/2017			0.0051		
2/23/2017			0.014		
3/14/2017				<0.0025	
3/15/2017	0.0016 (J)	<0.0025			0.014
3/17/2017			0.013		
4/11/2017			0.016		
4/25/2017				<0.0025	0.014
4/26/2017	0.00026 (J)	<0.0025	0.01		
5/17/2017			0.011		
6/7/2017			0.01		
7/11/2017			0.0085		
8/9/2017		0.0004 (J)		<0.0025	0.016
8/10/2017	0.00049 (J)				
3/29/2018	0.0008 (J)	0.0008 (J)	0.015		0.0092
3/30/2018				<0.0025	
6/14/2018	0.00067 (J)	0.00054 (J)	0.011	<0.0025	0.0035
10/3/2018				<0.0025	
10/4/2018	0.00079 (J)	<0.0025	0.0055		0.0078
2/27/2019	0.0006 (J)	0.00013 (J)	0.0049	<0.0025	0.00084 (J)
4/3/2019	0.00043 (J)	<0.0025	0.0056		
4/4/2019				<0.0025	0.00077 (J)
9/18/2019		<0.0025	0.005	<0.0025	0.00011 (J)
9/19/2019	0.00028 (J)				
2/5/2020	0.00058	<0.0025	0.0044		
2/7/2020				<0.0025	0.00016 (J)
3/18/2020	0.00071 (J)			<0.0025	0.00016 (J)
3/19/2020		<0.0025	0.0039		
9/23/2020	0.00039 (J)			<0.0025	<0.0025
9/24/2020		0.00032 (J)	0.0035		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.00245 (J)			
5/19/2016			<0.0025	<0.0025
7/20/2016	0.0018 (J)		<0.0025	<0.0025
9/14/2016	0.0014 (J)			<0.0025
9/15/2016			<0.0025	
11/10/2016	0.0016 (J)			
11/11/2016		<0.0025		
11/14/2016			<0.0025	
1/20/2017	0.0014 (J)			
2/6/2017		0.00058 (J)	<0.0025	
2/9/2017				0.00073 (J)
3/14/2017	0.0023 (J)			
3/15/2017		0.00045 (J)	<0.0025	<0.0025
4/11/2017		<0.0025		<0.0025
4/25/2017	0.0023 (J)			
4/26/2017		<0.0025	<0.0025	<0.0025
6/7/2017		<0.0025		
7/11/2017		<0.0025		
8/9/2017	0.0011 (J)			
8/10/2017		0.00049 (J)	<0.0025	<0.0025
3/29/2018		<0.0025	0.00066 (J)	<0.0025
3/30/2018	0.0016 (J)			
6/14/2018	0.00055 (J)	<0.0025	0.0011 (J)	<0.0025
10/4/2018	0.00041 (J)	<0.0025	<0.0025	<0.0025
2/26/2019	0.00086 (J)			
2/27/2019			0.0019 (J)	
2/28/2019		0.00019 (J)		<0.0025
4/2/2019		<0.0025		
4/3/2019			0.0037	<0.0025
4/4/2019	<0.0025			
9/18/2019	0.00018 (J)	0.00045 (J)		
9/19/2019			0.0028	<0.0025
2/5/2020				<0.0025
2/7/2020	0.00077	0.00024 (J)	0.0011	
3/18/2020	0.00052 (J)			
3/19/2020			0.00092 (J)	<0.0025
5/4/2020		0.00018 (J)		
9/22/2020			0.00065 (J)	
9/23/2020	0.0009 (J)	0.00024 (J)		<0.0025

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	0.0525 (U)	0.184 (U)	0.13 (U)		
5/18/2016				0.025 (U)	1.04
7/19/2016	7.25 (o)	0.27 (U)	0.121 (U)		
7/20/2016				0.398 (U)	0.812
9/13/2016	0.592 (U)	0.194 (U)	0.372 (U)	0.215 (U)	0.958
11/9/2016	0.221 (U)	0.219 (U)	0.217 (U)		
11/10/2016				0.421	1.13
1/17/2017	0.295 (U)		0.595		
1/18/2017				0.434 (U)	1.76
1/19/2017		0.0745 (U)			
3/13/2017	-0.13 (U)		-0.147 (U)		
3/14/2017		0.194 (U)		0.167 (U)	0.788
4/24/2017	0.36 (U)		0.367		
4/25/2017		0.109 (U)		0.224 (U)	1.13
8/8/2017	0.382	0.0842 (U)	0.402	0.127 (U)	
8/9/2017					1.31
3/27/2018	0.475		0.453		
3/28/2018		0.424		0.15 (U)	1.32
6/13/2018	-0.0181 (U)	0.401			
6/14/2018			0.402	0.258 (U)	0.857
9/24/2018			0.318		
9/27/2018	0.342				
9/28/2018		0.381			
10/3/2018				0.178 (U)	0.943
2/25/2019	0.394		0.44		
2/26/2019		0.307 (U)		0.179 (U)	0.65
4/1/2019	0.169 (U)		-0.00216 (U)		
4/2/2019		0.0436 (U)		0.361	0.602
9/16/2019	0.31 (U)				
9/17/2019		0.263 (U)	0.165 (U)		0.788
9/18/2019				0.189 (U)	
2/3/2020	0.283 (U)		0.0879 (U)		
2/4/2020				-0.107 (U)	1.49
2/5/2020		0.327 (U)			
3/16/2020	0.394 (U)		0.289 (U)		
3/17/2020		0.6 (U)		-0.139 (U)	0.964
9/21/2020			0.418 (U)	0.0688 (U)	1.07
9/22/2020	0.729	0.557 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	0.325 (U)	8	0.268 (U)	0.182 (U)	
5/19/2016					0.431 (U)
7/19/2016	0.433 (U)	7.69	0.369 (U)		
7/20/2016				-0.135 (U)	-0.263 (U)
9/13/2016		6.98	0.527 (U)		
9/14/2016				0.311 (U)	0.13 (U)
11/9/2016		8.78			
11/10/2016			0.871		
11/11/2016				0.542	0.0257 (U)
1/18/2017		10.4	0.213 (U)		
1/19/2017	0.216 (U)				
1/27/2017					0.898
2/6/2017				0.104 (U)	
3/14/2017	0.119 (U)	0.589 (O)	0.0192 (U)		
3/15/2017				0.523	0.121 (U)
4/25/2017	0.105 (U)	8.22	0.0872 (U)		
4/26/2017				0.069 (U)	0.0309 (U)
8/8/2017		7.21	0.219 (U)		
8/9/2017	0.385 (U)				
8/10/2017				0.189 (U)	0.326 (U)
3/28/2018	0.492	7.52	0.315 (U)		
3/29/2018					0.461
3/30/2018				0.575	
6/13/2018	0.275 (U)	8.77			
6/14/2018			0.41	0.523	0.275 (U)
10/2/2018		8.72			
10/3/2018	0.72		0.65		
10/4/2018				0.84	1.18
2/26/2019	0.113 (U)	8.93	0.395		
2/27/2019				0.236 (U)	0.374
4/2/2019	0.255 (U)	7.8	0.182 (U)		
4/3/2019					0.187 (U)
4/4/2019				0.233 (U)	
9/16/2019	0.318 (U)	8.55			
9/18/2019			0.299 (U)		
9/19/2019				0.124 (U)	0.338 (U)
2/4/2020	0.198 (U)	8.3			
2/5/2020			-0.0263 (U)	0.0961 (U)	0.163 (U)
3/17/2020	0.207 (U)	8.88	0.258 (U)		
3/18/2020				0.461 (U)	0.866
9/22/2020	0.954	7.65	0.0523 (U)		
9/23/2020				0.442 (U)	
9/24/2020					1.2

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.569	1.03
5/19/2016	0.0698 (U)	0.219 (U)			
7/19/2016				0.29 (U)	2.39
7/20/2016	-0.0646 (U)	0.404 (U)			
9/14/2016	0.199 (U)	0.692		0.412 (U)	3.05
11/10/2016		1		0.709	2.87
11/11/2016	0.467				
1/24/2017				0.779	2.68
1/27/2017	0.836	0.668			
2/8/2017			0.958		
2/23/2017			0.771		
3/14/2017				0.247 (U)	
3/15/2017	0.254 (U)	0.847			1.64
3/17/2017			1.7		
4/11/2017			0.901		
4/25/2017				0.515	0.878
4/26/2017	0.267 (U)	0.408 (U)	0.434		
5/17/2017			0.632		
6/7/2017			1.06		
7/11/2017			0.716		
8/9/2017		0.816		1.7	2.5
8/10/2017	0.912				
3/29/2018	0.419	0.51	0.58		1.6
3/30/2018				0.0985 (U)	
6/14/2018	-0.263 (U)	0.463	0.55	0.171 (U)	1.09
10/3/2018				0.766	
10/4/2018	1.29	0.99	0.563		1.99
2/27/2019	0.415	1.08	0.538	0.363 (U)	0.721
4/3/2019	0.264 (U)	0.446	0.497		
4/4/2019				0.418	0.632
9/18/2019		0.392	0.376 (U)	0.484	0.278 (U)
9/19/2019	0.329 (U)				
2/5/2020	0.225 (U)	0.609	0.5		
2/7/2020				0.125 (U)	0.797
3/18/2020	-0.0262 (U)			0.303 (U)	0.437
3/19/2020		0.47	0.376 (U)		
9/23/2020	0.785			0.448 (U)	0.276 (U)
9/24/2020		1.02	0.796		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.116 (U)			
5/19/2016			0.711 (U)	0.209 (U)
7/20/2016	0.247 (U)		1.14	-0.084 (U)
9/14/2016	0.594			0.42 (U)
9/15/2016			1.26	
11/10/2016	0.431			
11/11/2016		-0.11 (U)		
11/14/2016			0.749	
1/20/2017	1.35			
2/6/2017		0.471	1.05	
2/9/2017				0.393
3/14/2017	-0.107 (U)			
3/15/2017		0.255 (U)	1.32	0.271 (U)
4/11/2017		0.19 (U)		0.488 (U)
4/25/2017	0.228 (U)			
4/26/2017		0.22 (U)	1.07	0.14 (U)
6/7/2017		0.126 (U)		
7/11/2017		0.511		
8/9/2017	-0.0246 (U)			
8/10/2017		0.882	1.88	0.379
3/29/2018		0.252 (U)	2.31	0.278 (U)
3/30/2018	0.135 (U)			
6/14/2018	-0.373 (U)	0.0458 (U)	1.86	0.157 (U)
10/4/2018	0.775	0.381	2.44	0.48
2/26/2019	0.431			
2/27/2019			2.42	
2/28/2019		0.254 (U)		0.271 (U)
4/2/2019		0.209 (U)		
4/3/2019			1.55	0.0621 (U)
4/4/2019	0.386			
9/18/2019	0.167 (U)	0.403 (U)		
9/19/2019			2.06	0.537
2/5/2020				-0.137 (U)
2/7/2020	0.244 (U)	0.2 (U)	1.66	
3/18/2020	0.0655 (U)			
3/19/2020			1.21	0.23 (U)
5/4/2020		0.0697 (U)		
9/22/2020			1.75	
9/23/2020	0.643	1.18		0.0587 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	0.0131 (J)	0.284 (J)	0.0538 (J)		
5/18/2016				0.029 (J)	0.164 (J)
7/19/2016	<0.1	0.21	<0.1		
7/20/2016				<0.1	0.17 (J)
9/13/2016	<0.1	0.15 (J)	<0.1	<0.1	0.15 (J)
11/9/2016	<0.1	<0.1	0.085 (J)		
11/10/2016				<0.1	0.12 (J)
1/17/2017	<0.1		<0.1		
1/18/2017				<0.1	0.15 (J)
1/19/2017		0.087 (J)			
3/13/2017	<0.1		<0.1		
3/14/2017		<0.1		<0.1	0.13 (J)
4/24/2017	<0.1		<0.1		
4/25/2017		<0.1		<0.1	0.12 (J)
8/8/2017	<0.1	0.087 (J)	<0.1	<0.1	
8/9/2017					0.14 (J)
10/10/2017	<0.1		0.18 (J)		
10/11/2017		0.09 (J)		<0.1	0.14 (J)
3/27/2018	<0.1		<0.1		
3/28/2018		0.11 (J)		<0.1	0.12 (J)
6/13/2018	<0.1	0.085 (J)			
6/14/2018			<0.1	<0.1	0.12 (J)
9/24/2018			<0.1		
9/27/2018	<0.1				
9/28/2018		0.082 (J)			
10/3/2018				<0.1	0.13 (J)
2/25/2019	<0.1		0.032 (J)		
2/26/2019		0.23		<0.1	0.14 (J)
4/1/2019	<0.1		0.061 (J)		
4/2/2019		0.21		0.039 (J)	0.14 (J)
9/16/2019	0.03 (J)				
9/17/2019		0.079 (J)	0.061 (J)		0.14 (J)
9/18/2019				0.033 (J)	
2/3/2020	0.032 (J)		0.061 (J)		
2/4/2020				0.031 (J)	0.13
2/5/2020		0.12			
3/16/2020	0.042 (J)		0.052 (J)		
3/17/2020		<0.1		0.04 (J)	0.11
9/21/2020			0.037 (J)	<0.1	0.091 (J)
9/22/2020	<0.1	0.1			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	0.014 (J)	0.106 (J)	0.018 (J)	0.206	
5/19/2016					0.039 (J)
7/19/2016	<0.1	0.11 (J)	<0.1		
7/20/2016				0.23	<0.1
9/13/2016		0.11 (J)	<0.1		
9/14/2016	0.095 (J)			0.17 (J)	<0.1
11/9/2016		0.1 (J)			
11/10/2016			<0.1		
11/11/2016				0.14 (J)	<0.1
1/18/2017		0.11 (J)	<0.1		
1/19/2017	<0.1				
1/27/2017					<0.1
2/6/2017				0.15 (J)	
3/14/2017	<0.1	<0.1	<0.1		
3/15/2017				0.16 (J)	<0.1
4/25/2017	<0.1	<0.1	<0.1		
4/26/2017				0.17 (J)	<0.1
8/8/2017		0.099 (J)	<0.1		
8/9/2017	<0.1				
8/10/2017				0.2	<0.1
10/11/2017	<0.1	0.098 (J)	<0.1		
10/12/2017				0.14 (J)	<0.1
3/28/2018	<0.1	0.088 (J)	<0.1		
3/29/2018					<0.1
3/30/2018				0.13 (J)	
6/13/2018	<0.1	0.093 (J)			
6/14/2018			<0.1	0.15 (J)	<0.1
10/2/2018		0.13 (J)			
10/3/2018	<0.1		<0.1		
10/4/2018				0.18 (J)	<0.1
2/26/2019	<0.1	0.074 (J)	<0.1		
2/27/2019				0.21	0.047 (J)
4/2/2019	<0.1	0.09 (J)	<0.1		
4/3/2019					0.048 (J)
4/4/2019				0.13 (J)	
9/16/2019	<0.1	0.1 (J)			
9/18/2019			0.027 (J)		
9/19/2019				0.13 (J)	0.037 (J)
2/4/2020	<0.1	0.13			
2/5/2020			0.026 (J)	0.14	0.045 (J)
3/17/2020	<0.1	0.037 (J)	0.044 (J)		
3/18/2020				0.052 (J)	<0.1
9/22/2020	<0.1	0.068 (J)	<0.1		
9/23/2020				0.09 (J)	
9/24/2020					0.18

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.779	0.1 (J)
5/19/2016	0.12 (J)	0.384			
7/19/2016				0.97	0.14 (J)
7/20/2016	0.11 (J)	0.34			
9/14/2016	0.095 (J)	0.31		0.89	0.18 (J)
11/10/2016		0.26		0.88	0.11 (J)
11/11/2016	<0.1				
1/24/2017				0.92	0.15 (J)
1/27/2017	<0.1	0.28			
2/8/2017			<0.1		
2/23/2017			<0.1		
3/14/2017				0.77	
3/15/2017	<0.1	0.3			0.1 (J)
3/17/2017			<0.1		
4/11/2017			<0.1		
4/25/2017				0.95	0.13 (J)
4/26/2017	<0.1	0.33	<0.1		
5/17/2017			<0.1		
6/7/2017			<0.1		
7/11/2017			<0.1		
8/9/2017		0.32		0.91	0.18 (J)
8/10/2017	0.11 (J)				
10/11/2017			<0.1	0.88	<0.1
10/12/2017	0.091 (J)	0.28			
3/29/2018	0.089 (J)	0.27	<0.1		0.13 (J)
3/30/2018				0.79	
6/14/2018	0.1 (J)	0.27	<0.1	0.79	<0.1
10/3/2018				0.79	
10/4/2018	0.12 (J)	0.23	<0.1		0.85 (J)
2/27/2019	0.06 (J)	0.25	<0.1	0.81	0.47
4/3/2019	0.084 (J)	0.24	0.048 (J)		
4/4/2019				0.78	0.08 (J)
9/18/2019		0.22	0.035 (J)	0.81	0.058 (J)
9/19/2019	0.093 (J)				
2/5/2020	0.098 (J)	0.2	0.04 (J)		
2/7/2020				0.79	0.072 (J)
3/18/2020	0.033 (J)			0.71	0.084 (J)
3/19/2020		0.15	<0.1		
9/23/2020	0.064 (J)			0.63	0.049 (J)
9/24/2020		<0.1	0.028 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.121 (J)			
5/19/2016			0.304	1.58
7/20/2016	0.16 (J)		0.27	2
9/14/2016	0.19 (J)			1.8
9/15/2016			0.24	
11/10/2016	0.15 (J)			
11/11/2016		0.32		
11/14/2016			0.2	
1/20/2017	0.18 (J)			
2/6/2017		0.45	0.27	
2/9/2017				1.3
3/14/2017	0.11 (J)			
3/15/2017		0.37	0.25	1.3
4/11/2017		0.37		1.4
4/25/2017	0.13 (J)			
4/26/2017		0.4	0.31	1.5
6/7/2017		0.35		
7/11/2017		0.39		
8/9/2017	0.19 (J)			
8/10/2017		0.42	0.37	1.6
10/11/2017	0.14 (J)			
10/12/2017		0.36	0.35	1.5
3/29/2018		0.34	0.36	1.4
3/30/2018	0.095 (J)			
6/14/2018	0.11 (J)	0.35	0.56	1.4
10/4/2018	0.11 (J)	0.35	0.27	1.4
2/26/2019	0.068 (J)			
2/27/2019			0.054 (J)	
2/28/2019		0.28		1.4
4/2/2019		0.33		
4/3/2019			0.5	1.3
4/4/2019	0.087 (J)			
9/18/2019	0.066 (J)	0.32		
9/19/2019			0.42	1.3
2/5/2020				1.3
2/7/2020	0.079 (J)	0.35	0.25	
3/18/2020	<0.1			
3/19/2020			0.057 (J)	1
5/4/2020		0.36		
9/22/2020			0.14	
9/23/2020	0.05 (J)	0.25		0.82

Time Series

Constituent: Lead (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.001	<0.001	<0.001		
5/18/2016				<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001
11/9/2016	<0.001	<0.001	<0.001		
11/10/2016				<0.001	<0.001
1/17/2017	<0.001		<0.001		
1/18/2017				<0.001	<0.001
1/19/2017		<0.001			
3/13/2017	<0.001		<0.001		
3/14/2017		<0.001		<0.001	<0.001
4/24/2017	<0.001		<0.001		
4/25/2017		<0.001		<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001	
8/9/2017					<0.001
3/27/2018	<0.001		<0.001		
3/28/2018		<0.001		<0.001	<0.001
2/25/2019	<0.001		0.00019 (J)		
2/26/2019		<0.001		<0.001	0.00046 (J)
4/1/2019	<0.001		<0.001		
4/2/2019		<0.001		<0.001	<0.001
9/16/2019	<0.001				
9/17/2019		<0.001	<0.001		<0.001
9/18/2019				<0.001	
2/3/2020	<0.001		0.00013 (J)		
2/4/2020				0.00013 (J)	0.00019 (J)
2/5/2020		<0.001			
3/16/2020	0.00021 (J)		0.00018 (J)		
3/17/2020		<0.001		0.00019 (J)	0.00016 (J)
9/21/2020			<0.001	<0.001	<0.001
9/22/2020	<0.001	<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.001	<0.001	<0.001	<0.001	
5/19/2016					<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016		<0.001	<0.001		
9/14/2016	<0.001			<0.001	<0.001
11/9/2016		<0.001			
11/10/2016			<0.001		
11/11/2016				<0.001	<0.001
1/18/2017		<0.001	<0.001		
1/19/2017	<0.001				
1/27/2017					<0.001
2/6/2017				<0.001	
3/14/2017	<0.001	<0.001	<0.001		
3/15/2017				<0.001	<0.001
4/25/2017	<0.001	<0.001	<0.001		
4/26/2017				<0.001	<0.001
8/8/2017		<0.001	<0.001		
8/9/2017	<0.001				
8/10/2017				<0.001	<0.001
3/28/2018	<0.001	<0.001	<0.001		
3/29/2018					<0.001
3/30/2018				<0.001	
2/26/2019	0.00028 (J)	0.00037 (J)	<0.001		
2/27/2019				0.00023 (J)	0.00058 (J)
4/2/2019	<0.001	<0.001	<0.001		
4/3/2019					<0.001
4/4/2019				<0.001	
9/16/2019	<0.001	<0.001			
9/18/2019			<0.001		
9/19/2019				0.00041 (J)	<0.001
2/4/2020	0.00024 (J)	<0.001			
2/5/2020			<0.001	0.00016 (J)	<0.001
3/17/2020	<0.001	0.00017 (J)	<0.001		
3/18/2020				0.00021 (J)	<0.001
9/22/2020	<0.001	<0.001	<0.001		
9/23/2020				0.00013 (J)	
9/24/2020					0.00037 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.001	<0.001
5/19/2016	<0.001	<0.001			
7/19/2016				<0.001	<0.001
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	0.00055 (J)		<0.001	<0.001
11/10/2016		0.00047 (J)		<0.001	<0.001
11/11/2016	<0.001				
1/24/2017				<0.001	<0.001
1/27/2017	<0.001	<0.001			
2/8/2017			<0.001		
2/23/2017			<0.001		
3/14/2017				<0.001	
3/15/2017	<0.001	<0.001			<0.001
3/17/2017			<0.001		
4/11/2017			<0.001		
4/25/2017				<0.001	<0.001
4/26/2017	<0.001	<0.001	<0.001		
5/17/2017			<0.001		
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017		<0.001		<0.001	<0.001
8/10/2017	<0.001				
3/29/2018	<0.001	<0.001	<0.001		<0.001
3/30/2018				<0.001	
2/27/2019	<0.001	0.00068 (J)	<0.001	<0.001	0.00014 (J)
4/3/2019	<0.001	0.00047 (J)	<0.001		
4/4/2019				<0.001	<0.001
9/18/2019		0.00045 (J)	<0.001	<0.001	<0.001
9/19/2019	<0.001				
2/5/2020	<0.001	0.00045 (J)	<0.001		
2/7/2020				<0.001	<0.001
3/18/2020	<0.001			<0.001	<0.001
3/19/2020		0.0006 (J)	0.00017 (J)		
9/23/2020	<0.001			<0.001	<0.001
9/24/2020		<0.001	0.00018 (J)		

Time Series

Constituent: Lead (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001			
5/19/2016			<0.001	<0.001
7/20/2016	<0.001		<0.001	<0.001
9/14/2016	<0.001			<0.001
9/15/2016			<0.001	
11/10/2016	<0.001			
11/11/2016		<0.001		
11/14/2016			<0.001	
1/20/2017	<0.001			
2/6/2017		<0.001	<0.001	
2/9/2017				<0.001
3/14/2017	<0.001			
3/15/2017		<0.001	<0.001	<0.001
4/11/2017		<0.001		<0.001
4/25/2017	<0.001			
4/26/2017		<0.001	<0.001	<0.001
6/7/2017		<0.001		
7/11/2017		<0.001		
8/9/2017	<0.001			
8/10/2017		<0.001	<0.001	<0.001
3/29/2018		<0.001	<0.001	<0.001
3/30/2018	<0.001			
2/26/2019	0.00033 (J)			
2/27/2019			0.00017 (J)	
2/28/2019		<0.001		0.00014 (J)
4/2/2019		<0.001		
4/3/2019			<0.001	<0.001
4/4/2019	<0.001			
9/18/2019	<0.001	<0.001		
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020	<0.001	<0.001	<0.001	
3/18/2020	0.0002 (J)			
3/19/2020			0.00016 (J)	<0.001
5/4/2020		<0.001		
9/22/2020			0.00013 (J)	
9/23/2020	<0.001	<0.001		<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.05 (o)	<0.05 (o)	<0.05 (o)		
5/18/2016				<0.05 (o)	<0.05 (o)
7/19/2016	<0.005	<0.005	0.005		
7/20/2016				<0.005	0.0041 (J)
9/13/2016	<0.005	<0.005	0.0075	<0.005	0.0042 (J)
11/9/2016	0.0032 (J)	<0.005	0.0078		
11/10/2016				<0.005	0.0048 (J)
1/17/2017	<0.005		0.009		
1/18/2017				<0.005	0.0033 (J)
1/19/2017		<0.005			
3/13/2017	<0.005		0.0069		
3/14/2017		<0.005		<0.005	0.0033 (J)
4/24/2017	<0.005		0.0049 (J)		
4/25/2017		<0.005		<0.005	0.0037 (J)
8/8/2017	0.0032 (J)	<0.005	0.0075	<0.005	
8/9/2017					0.0042 (J)
3/27/2018	0.0045 (J)		0.0081		
3/28/2018		0.0012 (J)		0.0013 (J)	0.0056
6/13/2018	0.0033 (J)	<0.005			
6/14/2018			0.0072	0.0012 (J)	0.0045 (J)
9/24/2018			0.0082		
9/27/2018	0.0042 (J)				
9/28/2018		0.0013 (J)			
10/3/2018				0.0012 (J)	0.005
2/25/2019	0.0049 (J)		0.0072		
2/26/2019		<0.005		<0.005	0.0069
4/1/2019	0.0044 (J)		0.0055		
4/2/2019		0.0012 (J)		<0.005	0.0036 (J)
9/16/2019	0.004 (J)				
9/17/2019		<0.005	0.0083		0.0049 (J)
9/18/2019				<0.005	
2/3/2020	<0.005		0.0085		
2/4/2020				<0.005	0.0055
2/5/2020		<0.005			
3/16/2020	0.0053		0.0083		
3/17/2020		<0.005		<0.005	0.0059
9/21/2020			0.0075	<0.005	0.005
9/22/2020	0.0036 (J)	<0.005			

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.05 (o)	<0.05 (o)	<0.05 (o)	0.032	
5/19/2016					<0.005
7/19/2016	<0.005	0.0043 (J)	<0.005		
7/20/2016				0.021	<0.005
9/13/2016		0.0045 (J)	<0.005		
9/14/2016	<0.005			0.02	<0.005
11/9/2016		0.0036 (J)			
11/10/2016			<0.005		
11/11/2016				0.017	<0.005
1/18/2017		0.0046 (J)	<0.005		
1/19/2017	<0.005				
1/27/2017					<0.005
2/6/2017				0.016	
3/14/2017	<0.005	0.0038 (J)	<0.005		
3/15/2017				0.014	<0.005
4/25/2017	<0.005	<0.005	<0.005		
4/26/2017				0.011	<0.005
8/8/2017		0.0043 (J)	<0.005		
8/9/2017	<0.005				
8/10/2017				0.011	<0.005
3/28/2018	<0.005	0.0064	0.0014 (J)		
3/29/2018					0.0018 (J)
3/30/2018				0.016	
6/13/2018	<0.005	0.0041 (J)			
6/14/2018			<0.005	0.0084	0.0011 (J)
10/2/2018		0.0038 (J)			
10/3/2018	<0.005		<0.005		
10/4/2018				0.0085	0.0014 (J)
2/26/2019	<0.005	0.0068	<0.005		
2/27/2019				0.0068	<0.005
4/2/2019	0.0016 (J)	0.0052	<0.005		
4/3/2019					<0.005
4/4/2019				0.0059	
9/16/2019	0.028 (o)	0.032 (o)			
9/18/2019			<0.005		
9/19/2019				0.0075	<0.005
2/4/2020	<0.005	0.0053			
2/5/2020			<0.005	0.0061	<0.005
3/17/2020	<0.005	0.0055	<0.005		
3/18/2020				0.0071	<0.005
9/22/2020	<0.005	0.0049 (J)	<0.005		
9/23/2020				0.0054	
9/24/2020					<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.005	<0.005
5/19/2016	<0.005	<0.005			
7/19/2016				0.0036 (J)	0.0091
7/20/2016	0.0057	<0.005			
9/14/2016	0.0077	<0.005		<0.005	0.012
11/10/2016		0.0038 (J)		0.0064	0.013
11/11/2016	0.007				
1/24/2017				0.0075	0.011
1/27/2017	0.0074	<0.005			
2/8/2017			0.0039 (J)		
2/23/2017			<0.005		
3/14/2017				0.0057	
3/15/2017	0.0077	<0.005			0.01
3/17/2017			<0.005		
4/11/2017			<0.005		
4/25/2017				0.0059	0.0081
4/26/2017	0.0011	<0.005	<0.005		
5/17/2017			0.0033 (J)		
6/7/2017			<0.005		
7/11/2017			<0.005		
8/9/2017		<0.005		0.0068	0.013
8/10/2017	0.0064				
3/29/2018	0.01	0.0022 (J)	0.0025 (J)		0.015
3/30/2018				0.0077	
6/14/2018	0.0062	0.0018 (J)	0.0018 (J)	0.0052	0.009
10/3/2018				0.006	
10/4/2018	0.0066	0.0025 (J)	0.0016 (J)		0.012
2/27/2019	0.0068	<0.005	<0.005	0.0055	0.0075
4/3/2019	0.0075	<0.005	0.0015 (J)		
4/4/2019				0.0054	0.0077
9/18/2019		<0.005	<0.005	0.0054	0.0056
9/19/2019	0.0067				
2/5/2020	0.0063	<0.005	<0.005		
2/7/2020				0.0068	0.0053
3/18/2020	0.0081			0.0086	0.0057
3/19/2020		<0.005	<0.005		
9/23/2020	0.007			0.0071	0.0059
9/24/2020		<0.005	<0.005		

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.005			
5/19/2016			0.0215	0.0335
7/20/2016	0.0042 (J)		0.026	0.024
9/14/2016	0.0058			0.039
9/15/2016			0.057	
11/10/2016	0.0066			
11/11/2016		0.045		
11/14/2016			0.017	
1/20/2017	0.0044 (J)			
2/6/2017		0.05	0.012	
2/9/2017				0.04
3/14/2017	0.0048 (J)			
3/15/2017		0.052	0.014	0.035
4/11/2017		0.048		0.034
4/25/2017	0.0049 (J)			
4/26/2017		0.044	0.0091	0.029
6/7/2017		0.047		
7/11/2017		0.045		
8/9/2017	0.0067			
8/10/2017		0.056	0.013	0.038
3/29/2018		0.072	0.018	0.048
3/30/2018	0.0067			
6/14/2018	0.0046 (J)	0.048	0.015	0.034
10/4/2018	0.005	0.062	0.013	0.039
2/26/2019	0.0063			
2/27/2019			0.014	
2/28/2019		0.045		0.037
4/2/2019		0.052		
4/3/2019			0.015	0.035
4/4/2019	0.0042 (J)			
9/18/2019	0.0047 (J)	0.052		
9/19/2019			0.014	0.036
2/5/2020				0.034
2/7/2020	0.0045 (J)	0.044	0.014	
3/18/2020	0.0054			
3/19/2020			0.015	0.039
5/4/2020		0.049		
9/22/2020			0.013	
9/23/2020	0.0056	0.056		0.033

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.0002	<0.0002	<0.0002		
5/18/2016				<0.0002	<0.0002
7/19/2016	<0.0002	8.2E-05 (J)	8.1E-05 (J)		
7/20/2016				7.7E-05 (J)	8.1E-05 (J)
9/13/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/9/2016	<0.0002	<0.0002	<0.0002		
11/10/2016				0.00015 (J)	0.00016 (J)
1/17/2017	<0.0002		<0.0002		
1/18/2017				<0.0002	<0.0002
1/19/2017		<0.0002			
3/13/2017	<0.0002		<0.0002		
3/14/2017		7.1E-05 (J)		<0.0002	<0.0002
4/24/2017	<0.0002		<0.0002		
4/25/2017		<0.0002		<0.0002	<0.0002
8/8/2017	<0.0002	<0.0002	<0.0002	<0.0002	
8/9/2017					<0.0002
3/27/2018	<0.0002		<0.0002		
3/28/2018		<0.0002		<0.0002	<0.0002
6/13/2018	<0.0002	<0.0002			
6/14/2018			<0.0002	<0.0002	<0.0002
9/24/2018			<0.0002		
9/27/2018	<0.0002				
9/28/2018		<0.0002			
10/3/2018				<0.0002	<0.0002
2/25/2019	<0.0002		<0.0002		
2/26/2019		<0.0002		<0.0002	<0.0002
2/3/2020	<0.0002		<0.0002		
2/4/2020				0.00016 (J)	0.00011 (J)
2/5/2020		<0.0002			
3/16/2020	<0.0002		<0.0002		
3/17/2020		<0.0002		<0.0002	<0.0002
9/21/2020			<0.0002	<0.0002	<0.0002
9/22/2020	<0.0002	<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.0002	<0.0002	<0.0002	<0.0002	
5/19/2016					<0.0002
7/19/2016	8.5E-05 (J)	8.4E-05 (J)	7.2E-05 (J)		
7/20/2016				8.2E-05 (J)	8.2E-05 (J)
9/13/2016		<0.0002	<0.0002		
9/14/2016	<0.0002			<0.0002	<0.0002
11/9/2016		<0.0002			
11/10/2016			8.7E-05 (J)		
11/11/2016				8.5E-05 (J)	0.00011 (J)
1/18/2017		<0.0002	<0.0002		
1/19/2017	<0.0002				
1/27/2017					<0.0002
2/6/2017				8.3E-05 (J)	
3/14/2017	<0.0002	<0.0002	<0.0002		
3/15/2017				0.00013 (J)	<0.0002
4/25/2017	<0.0002	<0.0002	<0.0002		
4/26/2017				<0.0002	<0.0002
8/8/2017		<0.0002	<0.0002		
8/9/2017	<0.0002				
8/10/2017				<0.0002	<0.0002
3/28/2018	8.9E-05 (J)	<0.0002	<0.0002		
3/29/2018					<0.0002
3/30/2018				<0.0002	
6/13/2018	<0.0002	<0.0002			
6/14/2018			<0.0002	<0.0002	<0.0002
10/2/2018		<0.0002			
10/3/2018	<0.0002		<0.0002		
10/4/2018				<0.0002	<0.0002
2/26/2019	<0.0002	<0.0002	<0.0002		
2/27/2019				<0.0002	<0.0002
2/4/2020	<0.0002	<0.0002			
2/5/2020			<0.0002	<0.0002	<0.0002
3/17/2020	<0.0002	<0.0002	<0.0002		
3/18/2020				<0.0002	<0.0002
9/22/2020	<0.0002	<0.0002	<0.0002		
9/23/2020				<0.0002	
9/24/2020					<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.0002	<0.0002
5/19/2016	<0.0002	<0.0002			
7/19/2016				9.3E-05 (J)	<0.0002
7/20/2016	0.00011 (J)	8.1E-05 (J)			
9/14/2016	<0.0002	<0.0002		<0.0002	<0.0002
11/10/2016		8.3E-05 (J)		8.5E-05 (J)	0.00012 (J)
11/11/2016	7.9E-05 (J)				
1/24/2017				<0.0002	7E-05 (J)
1/27/2017	<0.0002	<0.0002			
2/8/2017			<0.0002		
2/23/2017			<0.0002		
3/14/2017				7.1E-05 (J)	
3/15/2017	0.00018 (J)	<0.0002			<0.0002
3/17/2017			0.00013 (J)		
4/11/2017			<0.0002		
4/25/2017				<0.0002	0.00019 (J)
4/26/2017	<0.0002	<0.0002	<0.0002		
5/17/2017			<0.0002		
6/7/2017			<0.0002		
7/11/2017			<0.0002		
8/9/2017		<0.0002		<0.0002	<0.0002
8/10/2017	<0.0002				
3/29/2018	0.00011 (J)	<0.0002	<0.0002		<0.0002
3/30/2018				8.6E-05 (J)	
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/3/2018				<0.0002	
10/4/2018	<0.0002	<0.0002	<0.0002		<0.0002
2/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2020	<0.0002	<0.0002	<0.0002		
2/7/2020				<0.0002	<0.0002
3/18/2020	<0.0002			<0.0002	<0.0002
3/19/2020		<0.0002	<0.0002		
9/23/2020	<0.0002			<0.0002	<0.0002
9/24/2020		<0.0002	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0002			
5/19/2016			<0.0002	<0.0002
7/20/2016	7.4E-05 (J)		<0.0002	<0.0002
9/14/2016	<0.0002			<0.0002
9/15/2016			0.00011 (J)	
11/10/2016	<0.0002			
11/11/2016		7.6E-05 (J)		
11/14/2016			<0.0002	
1/20/2017	<0.0002			
2/6/2017		0.00012 (J)	7.8E-05 (J)	
2/9/2017				<0.0002
3/14/2017	<0.0002			
3/15/2017		<0.0002	0.00013 (J)	0.00013 (J)
4/11/2017		<0.0002		<0.0002
4/25/2017	<0.0002			
4/26/2017		<0.0002	<0.0002	<0.0002
6/7/2017		<0.0002		
7/11/2017		<0.0002		
8/9/2017	<0.0002			
8/10/2017		<0.0002	<0.0002	<0.0002
3/29/2018		<0.0002	<0.0002	<0.0002
3/30/2018	<0.0002			
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002
10/4/2018	<0.0002	<0.0002	<0.0002	<0.0002
2/26/2019	<0.0002			
2/27/2019			<0.0002	
2/28/2019		<0.0002		<0.0002
2/5/2020				<0.0002
2/7/2020	<0.0002	<0.0002	<0.0002	
3/18/2020	<0.0002			
3/19/2020			<0.0002	<0.0002
5/4/2020		<0.0002		
9/22/2020			<0.0002	
9/23/2020	<0.0002	<0.0002		<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.015	0.00367 (J)	<0.015		
5/18/2016				<0.015	<0.015
7/19/2016	<0.015	0.002 (J)	<0.015		
7/20/2016				<0.015	<0.015
9/13/2016	<0.015	0.0014 (J)	<0.015	<0.015	<0.015
11/9/2016	<0.015	<0.015	<0.015		
11/10/2016				<0.015	<0.015
1/17/2017	<0.015		<0.015		
1/18/2017				<0.015	<0.015
1/19/2017		<0.015			
3/13/2017	<0.015		<0.015		
3/14/2017		0.0072 (J)		0.00087 (J)	<0.015
4/24/2017	<0.015		<0.015		
4/25/2017		0.0036 (J)		0.00098 (J)	<0.015
8/8/2017	0.0017 (J)	<0.015	<0.015	<0.015	
8/9/2017					<0.015
3/27/2018	<0.015		<0.015		
3/28/2018		0.00089 (J)		<0.015	<0.015
6/13/2018	<0.015	<0.015			
6/14/2018			<0.015	<0.015	<0.015
9/24/2018			<0.015		
9/27/2018	<0.015				
9/28/2018		<0.015			
10/3/2018				<0.015	<0.015
2/25/2019	<0.015		<0.015		
2/26/2019		0.0019 (J)		<0.015	<0.015
4/1/2019	<0.015		<0.015		
4/2/2019		<0.015		<0.015	<0.015
9/16/2019	<0.015				
9/17/2019		<0.015	<0.015		<0.015
9/18/2019				<0.015	
2/3/2020	<0.015		<0.015		
2/4/2020				<0.015	<0.015
2/5/2020		<0.015			
3/16/2020	<0.015		<0.015		
3/17/2020		<0.015		<0.015	<0.015
9/21/2020			<0.015	<0.015	<0.015
9/22/2020	<0.015	0.00097 (J)			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.015	<0.015	<0.015	<0.015	
5/19/2016					<0.015
7/19/2016	<0.015	<0.015	<0.015		
7/20/2016				<0.015	<0.015
9/13/2016		<0.015	<0.015		
9/14/2016	0.016 (o)			0.00091 (J)	<0.015
11/9/2016		<0.015			
11/10/2016			<0.015		
11/11/2016				<0.015	<0.015
1/18/2017		<0.015	0.001 (J)		
1/19/2017	<0.015				
1/27/2017					<0.015
2/6/2017				<0.015	
3/14/2017	<0.015	<0.015	0.0014 (J)		
3/15/2017				<0.015	<0.015
4/25/2017	<0.015	<0.015	<0.015		
4/26/2017				<0.015	<0.015
8/8/2017		<0.015	<0.015		
8/9/2017	<0.015				
8/10/2017				0.00093 (J)	0.0011 (J)
3/28/2018	<0.015	<0.015	<0.015		
3/29/2018					<0.015
3/30/2018				<0.015	
6/13/2018	<0.015	<0.015			
6/14/2018			<0.015	<0.015	<0.015
10/2/2018		<0.015			
10/3/2018	<0.015		<0.015		
10/4/2018				<0.015	<0.015
2/26/2019	<0.015	<0.015	<0.015		
2/27/2019				<0.015	<0.015
4/2/2019	<0.015	<0.015	<0.015		
4/3/2019					<0.015
4/4/2019				<0.015	
9/16/2019	0.001 (J)	0.001 (J)			
9/18/2019			<0.015		
9/19/2019				<0.015	<0.015
2/4/2020	<0.015	<0.015			
2/5/2020			<0.015	<0.015	<0.015
3/17/2020	<0.015	<0.015	<0.015		
3/18/2020				<0.015	<0.015
9/22/2020	0.0025 (J)	<0.015	<0.015		
9/23/2020				<0.015	
9/24/2020					0.0017 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				0.0153	<0.015
5/19/2016	<0.015	0.00491 (J)			
7/19/2016				0.0093 (J)	<0.015
7/20/2016	0.00095 (J)	0.0025 (J)			
9/14/2016	0.0009 (J)	0.0028 (J)		0.012 (J)	<0.015
11/10/2016		0.0016 (J)		0.0065 (J)	<0.015
11/11/2016	<0.015				
1/24/2017				0.0049 (J)	<0.015
1/27/2017	<0.015	0.0023 (J)			
2/8/2017			<0.015		
2/23/2017			<0.015		
3/14/2017				0.0034 (J)	
3/15/2017	<0.015	0.0022 (J)			<0.015
3/17/2017			<0.015		
4/11/2017			<0.015		
4/25/2017				0.004 (J)	<0.015
4/26/2017	<0.015	0.0019 (J)	<0.015		
5/17/2017			<0.015		
6/7/2017			0.001 (J)		
7/11/2017			<0.015		
8/9/2017		0.0028 (J)		0.0042 (J)	<0.015
8/10/2017	0.0046 (J)				
3/29/2018	<0.015	0.0028 (J)	<0.015		<0.015
3/30/2018				0.0049 (J)	
6/14/2018	<0.015	0.0018 (J)	<0.015	0.0056 (J)	<0.015
10/3/2018				0.0041 (J)	
10/4/2018	<0.015	<0.015	<0.015		<0.015
2/27/2019	0.00063 (J)	0.0019 (J)	<0.015	0.0061	<0.015
4/3/2019	<0.015	<0.015	<0.015		
4/4/2019				0.0039 (J)	<0.015
9/18/2019		0.0021 (J)	<0.015	0.0052	<0.015
9/19/2019	0.00073 (J)				
2/5/2020	<0.015	0.0012 (J)	<0.015		
2/7/2020				0.0024 (J)	<0.015
3/18/2020	<0.015			0.002 (J)	<0.015
3/19/2020		0.0018 (J)	<0.015		
9/23/2020	<0.015			0.0031 (J)	<0.015
9/24/2020		<0.015	<0.015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.00526 (J)			
5/19/2016			<0.015	0.00762 (J)
7/20/2016	0.0066 (J)		<0.015	0.0084 (J)
9/14/2016	0.0081 (J)			0.0071 (J)
9/15/2016			<0.015	
11/10/2016	0.0076 (J)			
11/11/2016		<0.015		
11/14/2016			<0.015	
1/20/2017	0.0094 (J)			
2/6/2017		0.001 (J)	<0.015	
2/9/2017				0.018
3/14/2017	0.0044 (J)			
3/15/2017		<0.015	<0.015	0.0057 (J)
4/11/2017		<0.015		0.0047 (J)
4/25/2017	0.0074 (J)			
4/26/2017		<0.015	<0.015	0.004 (J)
6/7/2017		0.0015 (J)		
7/11/2017		<0.015		
8/9/2017	0.0066 (J)			
8/10/2017		0.0016 (J)	<0.015	0.0046 (J)
3/29/2018		0.0012 (J)	<0.015	0.0048 (J)
3/30/2018	0.0024 (J)			
6/14/2018	0.0026 (J)	0.0014 (J)	<0.015	0.0046 (J)
10/4/2018	0.00085 (J)	<0.015	<0.015	0.003 (J)
2/26/2019	0.0032 (J)			
2/27/2019			<0.015	
2/28/2019		0.0013 (J)		0.0053
4/2/2019		<0.015		
4/3/2019			<0.015	0.0026 (J)
4/4/2019	0.002 (J)			
9/18/2019	0.0026 (J)	0.0011 (J)		
9/19/2019			<0.015	0.0048 (J)
2/5/2020				0.0044 (J)
2/7/2020	0.0025 (J)	0.0014 (J)	<0.015	
3/18/2020	0.0024 (J)			
3/19/2020			<0.015	0.0042 (J)
5/4/2020		0.0013 (J)		
9/22/2020			<0.015	
9/23/2020	0.0027 (J)	0.0013 (J)		0.0027 (J)

Time Series

Constituent: pH (S.U.) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	5.24	7.81	6.23		
5/18/2016				5.55	7.23
7/18/2016	5.434038				
7/19/2016			6.285413		
7/20/2016				5.656628	7.281557
9/13/2016	5.22	7.18	6.3	5.63	7.15
11/9/2016	5.57	6.03	6.26		
11/10/2016				5.61	6.33
1/17/2017	5.48		6.8		
1/18/2017				5.81	6.94
1/19/2017		6.71			
3/13/2017	5.4		6.18		
3/14/2017		6.45		5.53	6.75
4/24/2017	5.4		6.35		
4/25/2017		6.93		5.59	6.84
8/8/2017	5.32	6.72	6.23	5.52	
8/9/2017					6.67
10/10/2017	5.26		6.32		
10/11/2017		6.75		5.51	6.75
3/27/2018	5.39		6.14		
3/28/2018		6.84		5.6	6.79
6/13/2018	5.33	6.31			
6/14/2018			6.02	5.58	6.67
9/24/2018			6.1		
9/27/2018	5.33				
9/28/2018		6.26			
10/3/2018				5.45	6.92
2/25/2019	5.25		6.02		
2/26/2019		7.66		5.6	6.74
4/1/2019	5.31		6.09		
4/2/2019		7.53		5.69	6.81
9/16/2019	5.28				
9/17/2019		6.47	6.25		6.93
9/18/2019				5.62	
2/3/2020	5.4		6.09		
2/4/2020				5.66	7.29
2/5/2020		6.73			
3/16/2020	5.29		6.01		
3/17/2020		6.36		5.61	6.83
9/21/2020			6.05	5.35	6.81
9/22/2020	5.09	7.18			

Time Series

Constituent: pH (S.U.) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	5.47	7.92	5.5	8.96	
5/19/2016					5.93
7/18/2016					5.9661
7/19/2016	5.336672	7.154587	5.43		
7/20/2016				8.56774	
9/13/2016		7.96	5.57		
9/14/2016	7.29				
11/9/2016		7.27			
11/10/2016			6.93		
11/11/2016				6.96	6.03
1/18/2017		7.72	7.16		
1/19/2017	6.59				
1/27/2017					6.21
2/6/2017				6.93	
3/14/2017	5.86		5.82		
3/15/2017				6.82	5.97
4/25/2017	5.35	7.73	5.57		
4/26/2017				6.73	6.17
8/8/2017		7.74	5.6		
8/9/2017	5.25				
8/10/2017				6.66	6.05
8/25/2017	5.44				
10/11/2017	6.99	7.71	5.43		
10/12/2017				6.67	6.89
3/28/2018	5.95	7.28	5.29		
3/29/2018					6.85
3/30/2018				6.98	
6/13/2018	5.13	7.78			
6/14/2018			5.39	6.56	5.89
10/2/2018		7.52			
10/3/2018	5.22		5.33		
10/4/2018				6.4	5.81
2/26/2019	5.21	7.87	5.62		
2/27/2019				6.23	5.78
4/2/2019	5.25	7.94	5.6		
4/3/2019					6.07
4/4/2019				6.46	
9/16/2019	6.94	7.55			
9/18/2019			5.6		
9/19/2019				6.45	5.82
2/4/2020	5.31	7.74			
2/5/2020			5.54	6.42	5.89
3/17/2020	5.34	7.96	5.32		
3/18/2020				6.4	5.89
9/22/2020	6.78	7.4	5.36		
9/23/2020				6.14	
9/24/2020					5.5

Time Series

Constituent: pH (S.U.) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				7.75	6.06
5/19/2016	6.91	6.85			
7/18/2016					5.884339
7/19/2016				7.876073	
7/20/2016	6.962608	6.705264			
9/1/2016	6.96				
9/14/2016		6.7		7.79	5.89
11/10/2016		6.5		7.76	5.6
11/11/2016	6.76				
1/24/2017				7.71	5.54
1/27/2017	6.66	6.47			
2/8/2017			5.81		
2/23/2017			5.8		
3/14/2017				7.57	
3/15/2017	6.3	6.75			5.39
3/17/2017			5.97		
4/11/2017			6.18		
4/25/2017				7.47	5.28
4/26/2017	6.67	6.57	6.09		
5/17/2017			6.26		
6/7/2017			6.21		
7/11/2017			6		
8/9/2017		6.55		7.37	5.46
8/10/2017	6.7				
10/11/2017			6.97	7.42	5.45
10/12/2017	6.89	6.67			
3/29/2018	7.08	6.99	6.51		5.33
3/30/2018				7.48	
6/14/2018	6.73	6.39	5.76	7.5	5.35
10/3/2018				7.11	
10/4/2018	6.79	6.5	5.97		5.28
2/27/2019	6.7	6.47	5.73	7.4	5.08
4/3/2019	6.91	6.47	5.68		
4/4/2019				7.58	5.19
9/18/2019		6.46	5.5	7.8	5.19
9/19/2019	6.63				
2/5/2020	6.76	6.44	5.52		
2/7/2020				7.66	5.17
3/18/2020	6.94			7.73	5.08
3/19/2020		6.56	5.49		
9/23/2020	6.42			7.35	5.05
9/24/2020		6.29	5.16		

Time Series

Constituent: pH (S.U.) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	6.41			
5/19/2016			5.99	6.31
7/20/2016	6.662463		6.194334	6.345061
9/14/2016	6.7			6.33
9/15/2016			6.38	
11/10/2016	6.51			
11/11/2016		6.93		
11/14/2016			5.7	
1/20/2017	6.55			
2/6/2017		6.8	5.66	
3/14/2017	6.27			
3/15/2017		6.78	5.77	5.99
4/11/2017		6.79		
4/25/2017	6.26			
4/26/2017		6.82	5.39	6.03
6/7/2017		6.76		
7/11/2017		6.99		
8/9/2017	6.47			
8/10/2017		6.59	5.59	5.86
10/11/2017	6.47			
10/12/2017		6.7	5.46	6.09
3/29/2018		6.88	5.43	5.89
3/30/2018	6.71			
6/14/2018	6.15	6.72	5.76	6.47
10/4/2018	6.14	6.67	5.39	6.17
2/26/2019	6.17			
2/28/2019		6.98		6.045 (D)
4/2/2019		6.75		
4/3/2019			5.55	6.1
4/4/2019	6.16			
9/18/2019	6.17	6.71		
9/19/2019			5.39	6.38
2/5/2020				6.54
2/7/2020	6.34	7.08	5.38	
3/18/2020	6.28			
3/19/2020			6.43	6.64
5/4/2020		6.9		
9/22/2020			5.17	
9/23/2020	5.89	6.59		5.8

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.005	<0.005	<0.005		
5/18/2016				<0.005	<0.005
7/19/2016	<0.005	<0.005	<0.005		
7/20/2016				<0.005	<0.005
9/13/2016	<0.005	<0.005	<0.005	<0.005	<0.005
11/9/2016	<0.005	<0.005	<0.005		
11/10/2016				<0.005	<0.005
1/17/2017	<0.005		<0.005		
1/18/2017				<0.005	<0.005
1/19/2017		<0.005			
3/13/2017	<0.005		<0.005		
3/14/2017		0.0028		0.00026 (J)	<0.005
4/24/2017	<0.005		<0.005		
4/25/2017		0.0018		0.00035 (J)	<0.005
8/8/2017	0.0013	<0.005	<0.005	<0.005	
8/9/2017					<0.005
3/27/2018	0.00055 (J)		<0.005		
3/28/2018		<0.005		<0.005	<0.005
6/13/2018	<0.005	<0.005			
6/14/2018			<0.005	<0.005	0.00032 (J)
9/24/2018			<0.005		
9/27/2018	<0.005				
9/28/2018		<0.005			
10/3/2018				<0.005	<0.005
2/25/2019	<0.005		<0.005		
2/26/2019		<0.005		<0.005	<0.005
4/1/2019	<0.005		<0.005		
4/2/2019		<0.005		<0.005	<0.005
9/16/2019	<0.005				
9/17/2019		<0.005	<0.005		<0.005
9/18/2019				<0.005	
2/3/2020	<0.005		<0.005		
2/4/2020				<0.005	<0.005
2/5/2020		<0.005			
3/16/2020	<0.005		0.0026 (J)		
3/17/2020		<0.005		<0.005	<0.005
9/21/2020			<0.005	<0.005	<0.005
9/22/2020	<0.005	<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.005	<0.005	<0.005	<0.005	
5/19/2016					<0.005
7/19/2016	<0.005	<0.005	<0.005		
7/20/2016				<0.005	<0.005
9/13/2016		<0.005	<0.005		
9/14/2016	<0.005			<0.005	<0.005
11/9/2016		<0.005			
11/10/2016			<0.005		
11/11/2016				<0.005	<0.005
1/18/2017		<0.005	<0.005		
1/19/2017	<0.005				
1/27/2017					<0.005
2/6/2017				<0.005	
3/14/2017	<0.005	<0.005	<0.005		
3/15/2017				<0.005	<0.005
4/25/2017	<0.005	<0.005	<0.005		
4/26/2017				<0.005	<0.005
8/8/2017		<0.005	<0.005		
8/9/2017	<0.005				
8/10/2017				0.00031 (J)	0.00049 (J)
3/28/2018	<0.005	<0.005	<0.005		
3/29/2018					<0.005
3/30/2018				<0.005	
6/13/2018	0.00025 (J)	<0.005			
6/14/2018			<0.005	<0.005	<0.005
10/2/2018		<0.005			
10/3/2018	<0.005		<0.005		
10/4/2018				<0.005	<0.005
2/26/2019	<0.005	<0.005	<0.005		
2/27/2019				<0.005	<0.005
4/2/2019	<0.005	<0.005	<0.005		
4/3/2019					<0.005
4/4/2019				<0.005	
9/16/2019	<0.005	<0.005			
9/18/2019			<0.005		
9/19/2019				<0.005	<0.005
2/4/2020	<0.005	<0.005			
2/5/2020			<0.005	<0.005	<0.005
3/17/2020	<0.005	<0.005	<0.005		
3/18/2020				<0.005	<0.005
9/22/2020	<0.005	<0.005	<0.005		
9/23/2020				<0.005	
9/24/2020					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.005	0.00735
5/19/2016	<0.005	<0.005			
7/19/2016				<0.005	0.0075
7/20/2016	<0.005	<0.005			
9/14/2016	<0.005	<0.005		<0.005	0.0091
11/10/2016		<0.005		<0.005	0.0056
11/11/2016	<0.005				
1/24/2017				<0.005	0.012
1/27/2017	<0.005	<0.005			
2/8/2017			<0.005		
2/23/2017			<0.005		
3/14/2017				<0.005	
3/15/2017	<0.005	<0.005			0.012
3/17/2017			<0.005		
4/11/2017			<0.005		
4/25/2017				<0.005	0.013
4/26/2017	<0.005	<0.005	<0.005		
5/17/2017			<0.005		
6/7/2017			<0.005		
7/11/2017			<0.005		
8/9/2017		<0.005		<0.005	0.016
8/10/2017	0.0021				
3/29/2018	<0.005	<0.005	0.0003 (J)		0.016
3/30/2018				<0.005	
6/14/2018	<0.005	<0.005	<0.005	0.0005 (J)	0.012
10/3/2018				<0.005	
10/4/2018	<0.005	<0.005	<0.005		0.013
2/27/2019	<0.005	<0.005	<0.005	<0.005	0.0081
4/3/2019	<0.005	<0.005	<0.005		
4/4/2019				<0.005	0.0091
9/18/2019		<0.005	<0.005	<0.005	0.0044 (J)
9/19/2019	<0.005				
2/5/2020	<0.005	<0.005	<0.005		
2/7/2020				<0.005	0.0036 (J)
3/18/2020	<0.005			<0.005	0.0046 (J)
3/19/2020		<0.005	<0.005		
9/23/2020	<0.005			<0.005	0.0028 (J)
9/24/2020		<0.005	<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.005			
5/19/2016			0.00518	0.00228
7/20/2016	<0.005		0.0038	0.0016
9/14/2016	<0.005			0.0024
9/15/2016			0.0034	
11/10/2016	<0.005			
11/11/2016		<0.005		
11/14/2016			0.0033	
1/20/2017	<0.005			
2/6/2017		<0.005	0.0033	
2/9/2017				0.0023
3/14/2017	<0.005			
3/15/2017		<0.005	0.003	0.0031
4/11/2017		<0.005		0.0023
4/25/2017	<0.005			
4/26/2017		<0.005	0.0032	0.0019
6/7/2017		<0.005		
7/11/2017		<0.005		
8/9/2017	<0.005			
8/10/2017		0.00036 (J)	0.0031	0.0021
3/29/2018		<0.005	0.0034	0.0021
3/30/2018	<0.005			
6/14/2018	<0.005	<0.005	0.0031	0.0025
10/4/2018	<0.005	<0.005	0.0033	0.002
2/26/2019	<0.005			
2/27/2019			0.0035	
2/28/2019		<0.005		0.0027
4/2/2019		<0.005		
4/3/2019			0.0031	0.0019
4/4/2019	<0.005			
9/18/2019	<0.005	<0.005		
9/19/2019			0.0021 (J)	0.0026 (J)
2/5/2020				0.0033 (J)
2/7/2020	<0.005	<0.005	0.0048 (J)	
3/18/2020	<0.005			
3/19/2020			0.0037 (J)	0.0033 (J)
5/4/2020		<0.005		
9/22/2020			0.0039 (J)	
9/23/2020	<0.005	<0.005		0.0029 (J)

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<1	19.9	1.14		
5/18/2016				0.821 (J)	5.32
7/19/2016	<1	14	1.4		
7/20/2016				0.82 (J)	6.5
9/13/2016	<1	11	1.1	0.81 (J)	5.6
11/9/2016	<1	6.3	1.1		
11/10/2016				0.73 (J)	5.4
1/17/2017	<1		2.1		
1/18/2017				0.99 (J)	5.1
1/19/2017		7.4			
3/13/2017	<1		0.97 (J)		
3/14/2017		10		0.83 (J)	4.6
4/24/2017	<1		0.75 (J)		
4/25/2017		10		0.7 (J)	6.6
8/8/2017	<1	12	1.1	0.82 (J)	
8/9/2017					7.3
10/10/2017	<1		1.3		
10/11/2017		11		0.72 (J)	6.8
6/13/2018	<1	8.2			
6/14/2018			0.84 (J)	<1	6.9
9/24/2018			0.79 (J)		
9/27/2018	<1				
9/28/2018		7.6			
10/3/2018				0.73 (J)	7
4/1/2019	<1		1		
4/2/2019		11		1.1	8.1
9/16/2019	0.49 (J)				
9/17/2019		8	1.3		8.1
9/18/2019				0.78 (J)	
3/16/2020	0.42 (J)		1.3		
3/17/2020		8.5		1.2	12
9/21/2020			1.1	0.77 (J)	7.7
9/22/2020	<1	9			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	0.955 (J)	8.88	0.368 (J)	2.84	
5/19/2016					1.83
7/19/2016	0.76 (J)	9	<1		
7/20/2016				2.8	1.6
9/13/2016		8.5	<1		
9/14/2016	3.4			2.8	1.5
11/9/2016		8.2			
11/10/2016			<1		
11/11/2016				2.6	1.4
1/18/2017		9.4	1.4		
1/19/2017	21				
1/27/2017					2.5
2/6/2017				2.7	
3/14/2017	1.4	2	<1		
3/15/2017				2.7	2.5
4/25/2017	0.89 (J)	8.2	<1		
4/26/2017				2.5	2.2
8/8/2017		8.5	<1		
8/9/2017	0.75 (J)				
8/10/2017				2.2	2.3
10/11/2017	<1	8.3	<1		
10/12/2017				1.9	1.9
6/13/2018	<1	8.3			
6/14/2018			<1	2	1.7
10/2/2018		8.3			
10/3/2018	<1		<1		
10/4/2018				1.9	1.6
4/2/2019	0.94 (J)	8.5	0.4 (J)		
4/3/2019					1.9
4/4/2019				2.2	
9/16/2019	2.2	8.9			
9/18/2019			<1		
9/19/2019				2.1	1.3
3/17/2020	4	12	0.86 (J)		
3/18/2020				2.1	1.6
9/22/2020	1.5	8	0.38 (J)		
9/23/2020				1.8	
9/24/2020					2.7

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				50.7	388
5/19/2016	15.8	19.2			
7/19/2016				62	460
7/20/2016	16	11			
9/14/2016	16	8.6		79	500
11/10/2016		5.7		61	530
11/11/2016	14				
1/24/2017				34	600
1/27/2017	15	6.8			
2/8/2017			4.3		
2/23/2017			16		
3/14/2017				43	
3/15/2017	17	11			610
3/17/2017			22		
4/11/2017			13		
4/25/2017				39	620
4/26/2017	15	8.1	20		
5/17/2017			12		
6/7/2017			8.1		
7/11/2017			17		
8/9/2017		8.1		35	780
8/10/2017	16				
10/11/2017			3.4	48	720
10/12/2017	14	6.1			
6/14/2018	14	5	5.8	44	620
10/3/2018				49	
10/4/2018	14	4.3	2.8		560
4/3/2019	13	3.8	3.8		
4/4/2019				41	250
9/18/2019		3.9	1.7	37	130
9/19/2019	14				
3/18/2020	12			17	120
3/19/2020		4	1.5		
9/23/2020	12			21	85
9/24/2020		0.63 (J)	1.2		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	32.1			
5/19/2016			146	35.9
7/20/2016	9.7		150	37
9/14/2016	6.6			39
9/15/2016			140	
11/10/2016	5.2			
11/11/2016		3.4		
11/14/2016			160	
1/20/2017	5.3			
2/6/2017		3.7	180	
2/9/2017				60
3/14/2017	9.6			
3/15/2017		3.6	170	44
4/11/2017		3.2		36
4/25/2017	20			
4/26/2017		3.3	180	37
6/7/2017		3.8		
7/11/2017		3.3		
8/9/2017	6.5			
8/10/2017		3.7	180	38
10/11/2017	13			
10/12/2017		3.6	180	37
6/14/2018	16	3.5	170	37
10/4/2018	15	4.6	780	38
4/2/2019		3.8		
4/3/2019			180	41
4/4/2019	9.1			
9/18/2019	7.3	3.6		
9/19/2019			190	42
3/18/2020	4.2			
3/19/2020			200	45
5/4/2020		4.5		
9/22/2020			200	
9/23/2020	4.4	3		54

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<0.001	<0.001	<0.001		
5/18/2016				<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001
11/9/2016	<0.001	<0.001	<0.001		
11/10/2016				<0.001	<0.001
1/17/2017	<0.001		<0.001		
1/18/2017				<0.001	<0.001
1/19/2017		<0.001			
3/13/2017	<0.001		<0.001		
3/14/2017		<0.001		<0.001	<0.001
4/24/2017	<0.001		<0.001		
4/25/2017		<0.001		<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001	
8/9/2017					<0.001
3/27/2018	<0.001		<0.001		
3/28/2018		<0.001		<0.001	<0.001
6/13/2018	<0.001	<0.001			
6/14/2018			<0.001	<0.001	<0.001
9/24/2018			<0.001		
9/27/2018	<0.001				
9/28/2018		<0.001			
10/3/2018				<0.001	<0.001
2/25/2019	<0.001		<0.001		
2/26/2019		<0.001		<0.001	<0.001
4/1/2019	<0.001		<0.001		
4/2/2019		<0.001		<0.001	<0.001
9/16/2019	0.00016 (J)				
9/17/2019		<0.001	<0.001		<0.001
9/18/2019				<0.001	
2/3/2020	<0.001		0.0002 (J)		
2/4/2020				<0.001	<0.001
2/5/2020		<0.001			
3/16/2020	0.00036 (J)		0.0003 (J)		
3/17/2020		<0.001		<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001
9/22/2020	<0.001	<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	<0.001	<0.001	<0.001	<0.001	
5/19/2016					<0.001
7/19/2016	<0.001	<0.001	<0.001		
7/20/2016				<0.001	<0.001
9/13/2016		<0.001	<0.001		
9/14/2016	9E-05 (J)			<0.001	<0.001
11/9/2016		<0.001			
11/10/2016			<0.001		
11/11/2016				<0.001	<0.001
1/18/2017		<0.001	<0.001		
1/19/2017	<0.001				
1/27/2017					<0.001
2/6/2017				<0.001	
3/14/2017	<0.001	<0.001	<0.001		
3/15/2017				<0.001	<0.001
4/25/2017	<0.001	<0.001	<0.001		
4/26/2017				<0.001	<0.001
8/8/2017		<0.001	<0.001		
8/9/2017	<0.001				
8/10/2017				<0.001	<0.001
3/28/2018	<0.001	<0.001	<0.001		
3/29/2018					<0.001
3/30/2018				8.5E-05 (J)	
6/13/2018	<0.001	<0.001			
6/14/2018			<0.001	<0.001	<0.001
10/2/2018		<0.001			
10/3/2018	<0.001		<0.001		
10/4/2018				<0.001	<0.001
2/26/2019	<0.001	<0.001	<0.001		
2/27/2019				<0.001	<0.001
4/2/2019	<0.001	<0.001	<0.001		
4/3/2019					<0.001
4/4/2019				<0.001	
9/16/2019	<0.001	0.00062 (J)			
9/18/2019			<0.001		
9/19/2019				<0.001	<0.001
2/4/2020	<0.001	<0.001			
2/5/2020			0.00026 (J)	<0.001	<0.001
3/17/2020	<0.001	<0.001	<0.001		
3/18/2020				<0.001	<0.001
9/22/2020	<0.001	<0.001	<0.001		
9/23/2020				<0.001	
9/24/2020					<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				<0.001	<0.001
5/19/2016	<0.001	<0.001			
7/19/2016				<0.001	8.5E-05 (J)
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	<0.001		<0.001	0.00017 (J)
11/10/2016		<0.001		<0.001	0.00017 (J)
11/11/2016	<0.001				
1/24/2017				<0.001	0.00023 (J)
1/27/2017	<0.001	<0.001			
2/8/2017			0.00011 (J)		
2/23/2017			0.00012 (J)		
3/14/2017				<0.001	
3/15/2017	<0.001	<0.001			0.00021 (J)
3/17/2017			<0.001		
4/11/2017			<0.001		
4/25/2017				<0.001	0.00024 (J)
4/26/2017	<0.001	<0.001	<0.001		
5/17/2017			<0.001		
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017		<0.001		<0.001	0.0002 (J)
8/10/2017	<0.001				
3/29/2018	<0.001	<0.001	0.0002 (J)		0.00019 (J)
3/30/2018				<0.001	
6/14/2018	<0.001	<0.001	0.00014 (J)	<0.001	0.00017 (J)
10/3/2018				<0.001	
10/4/2018	<0.001	<0.001	0.00013 (J)		0.00015 (J)
2/27/2019	<0.001	<0.001	0.00016 (J)	<0.001	0.00015 (J)
4/3/2019	<0.001	<0.001	0.00012 (J)		
4/4/2019				<0.001	9.5E-05 (J)
9/18/2019		<0.001	<0.001	<0.001	<0.001
9/19/2019	<0.001				
2/5/2020	<0.001	<0.001	0.00022 (J)		
2/7/2020				<0.001	<0.001
3/18/2020	<0.001			<0.001	<0.001
3/19/2020		<0.001	0.00017 (J)		
9/23/2020	<0.001			<0.001	<0.001
9/24/2020		<0.001	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/8/2021 10:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001			
5/19/2016			<0.001	<0.001
7/20/2016	<0.001		<0.001	<0.001
9/14/2016	<0.001			<0.001
9/15/2016			<0.001	
11/10/2016	<0.001			
11/11/2016		<0.001		
11/14/2016			<0.001	
1/20/2017	<0.001			
2/6/2017		<0.001	<0.001	
2/9/2017				<0.001
3/14/2017	<0.001			
3/15/2017		<0.001	<0.001	<0.001
4/11/2017		<0.001		<0.001
4/25/2017	<0.001			
4/26/2017		<0.001	<0.001	<0.001
6/7/2017		<0.001		
7/11/2017		<0.001		
8/9/2017	<0.001			
8/10/2017		<0.001	<0.001	<0.001
3/29/2018		<0.001	<0.001	<0.001
3/30/2018	<0.001			
6/14/2018	<0.001	<0.001	<0.001	<0.001
10/4/2018	<0.001	<0.001	<0.001	<0.001
2/26/2019	<0.001			
2/27/2019			<0.001	
2/28/2019		<0.001		<0.001
4/2/2019		<0.001		
4/3/2019			<0.001	<0.001
4/4/2019	<0.001			
9/18/2019	<0.001	<0.001		
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020	<0.001	<0.001	<0.001	
3/18/2020	<0.001			
3/19/2020			<0.001	<0.001
5/4/2020		<0.001		
9/22/2020			<0.001	
9/23/2020	<0.001	<0.001		<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)
5/17/2016	<10	112	100		
5/18/2016				29	101
7/19/2016	14	80	84		
7/20/2016				<10	86
9/13/2016	50	120	70	12	28
11/9/2016	22	76	110		
11/10/2016				30	110
1/17/2017	8		120		
1/18/2017				22	98
1/19/2017		36			
3/13/2017	<10		58		
3/14/2017		70		22	110
4/24/2017	10		94		
4/25/2017		70		22	86
8/8/2017	<10	72	62	4 (J)	
8/9/2017					92
10/10/2017	44		140		
10/11/2017		90		10	110
6/13/2018	24	38			
6/14/2018			80	26	92
9/24/2018			76		
9/27/2018	28				
9/28/2018		68			
10/3/2018				50	100
4/1/2019	<10		63		
4/2/2019		100		28	100
9/16/2019	27				
9/17/2019		76	120		120
9/18/2019				36	
3/16/2020	23		90		
3/17/2020		81		20	100
9/21/2020			100	22	92
9/22/2020	24	96			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-5 (bg)	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11
5/18/2016	33	113	31	70	
5/19/2016					39
7/19/2016	<10	92	<10		
7/20/2016				42	<10
9/13/2016		100	<10		
9/14/2016	150			40	24
11/9/2016		130			
11/10/2016			44		
11/11/2016				72	42
1/18/2017		120	50		
1/19/2017	34				
1/27/2017					18
2/6/2017				24	
3/14/2017	32	110	26		
3/15/2017				78	54
4/25/2017	22	100	10		
4/26/2017				48	42
8/8/2017		90	<10		
8/9/2017	20				
8/10/2017				38	30
10/11/2017	4 (J)	98	42		
10/12/2017				72	54
6/13/2018	<10	110			
6/14/2018			14	40	16
10/2/2018		130			
10/3/2018	24		6		
10/4/2018				60	56
4/2/2019	25	110	15		
4/3/2019					<10
4/4/2019				30	
9/16/2019	41	110			
9/18/2019			35		
9/19/2019				52	27
3/17/2020	18	120	19		
3/18/2020				58	26
9/22/2020	190	130	15		
9/23/2020				50	
9/24/2020					60

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016				190	1080
5/19/2016	101	127			
7/19/2016				180	1200
7/20/2016	76	88			
9/14/2016	96	92		230	1300
11/10/2016		100		210	1400
11/11/2016	100				
1/24/2017				140	1300
1/27/2017	50	80			
2/8/2017			54		
2/23/2017			78		
3/14/2017				220	
3/15/2017	120	100			1500
3/17/2017			56		
4/11/2017			76		
4/25/2017				180	1700
4/26/2017	100	92	76		
5/17/2017			68		
6/7/2017			72		
7/11/2017			68		
8/9/2017		120		180	1900
8/10/2017	96				
10/11/2017			68	200	1900
10/12/2017	100	110			
6/14/2018	94	88	52	170	1500
10/3/2018				260	
10/4/2018	110	100	130		1700
4/3/2019	66	72	31		
4/4/2019				170	710
9/18/2019		110	33	160	520
9/19/2019	89				
3/18/2020	73			160	370
3/19/2020		95	18		
9/23/2020	90			150	250
9/24/2020		21	24		

Time Series

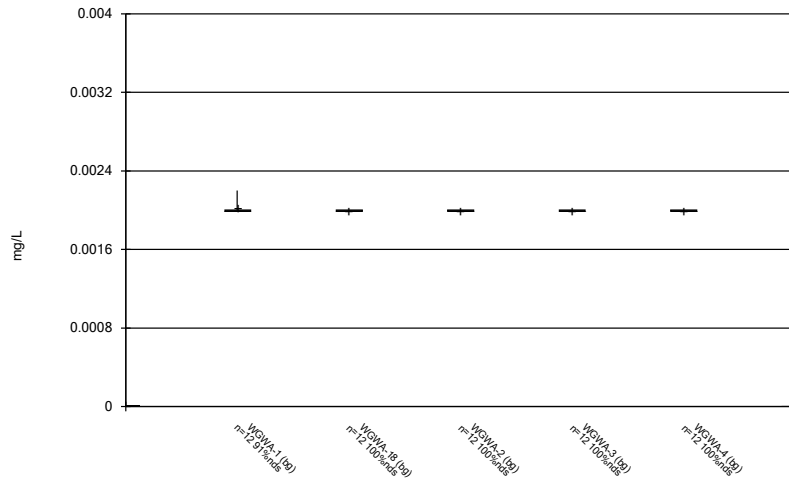
Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/8/2021 10:20 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	107			
5/19/2016			311	134
7/20/2016	78		290	120
9/14/2016	82			140
9/15/2016			270	
11/10/2016	98			
11/11/2016		98		
11/14/2016			320	
1/20/2017	82			
2/6/2017		36	330	
2/9/2017				180
3/14/2017	120			
3/15/2017		120	370	160
4/11/2017		68		120
4/25/2017	120			
4/26/2017		76	380	140
6/7/2017		74		
7/11/2017		70		
8/9/2017	92			
8/10/2017		66	380	130
10/11/2017	74			
10/12/2017		100	450	120
6/14/2018	100	74	410	120
10/4/2018	98	100	520	140
4/2/2019		88		
4/3/2019			430	120
4/4/2019	89			
9/18/2019	79	96		
9/19/2019			440	130
3/18/2020	98			
3/19/2020			540	160
5/4/2020		110		
9/22/2020			600	
9/23/2020	60	94		150

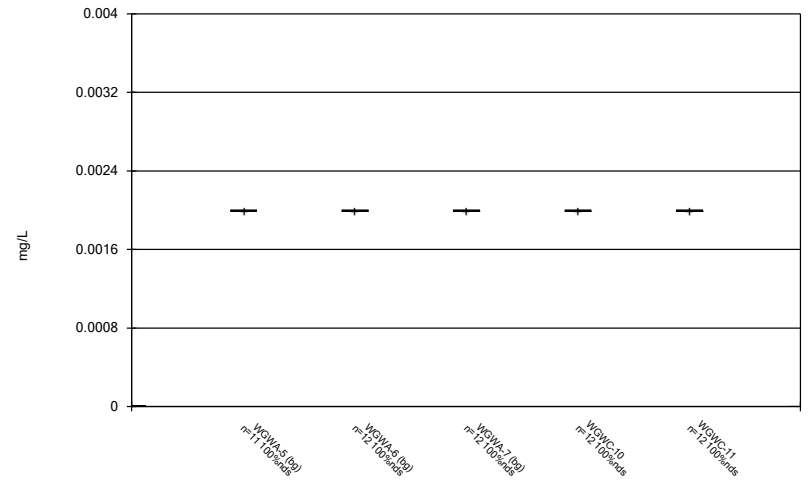
FIGURE B.

Box & Whiskers Plot



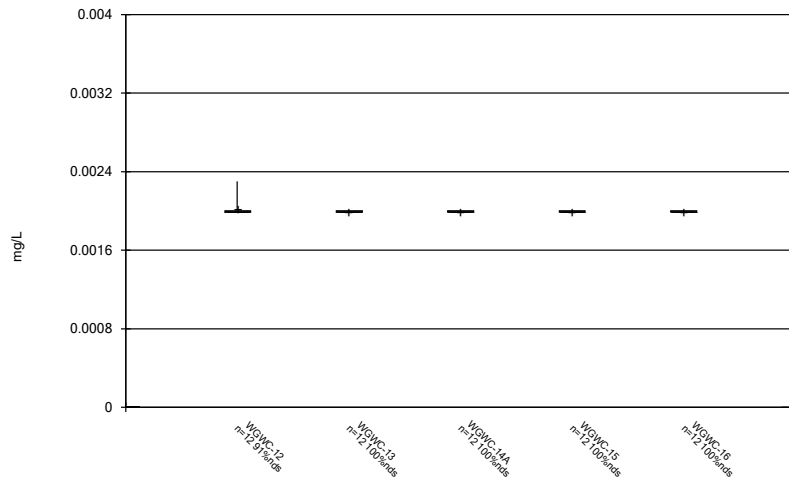
Constituent: Antimony Analysis Run 1/8/2021 10:21 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



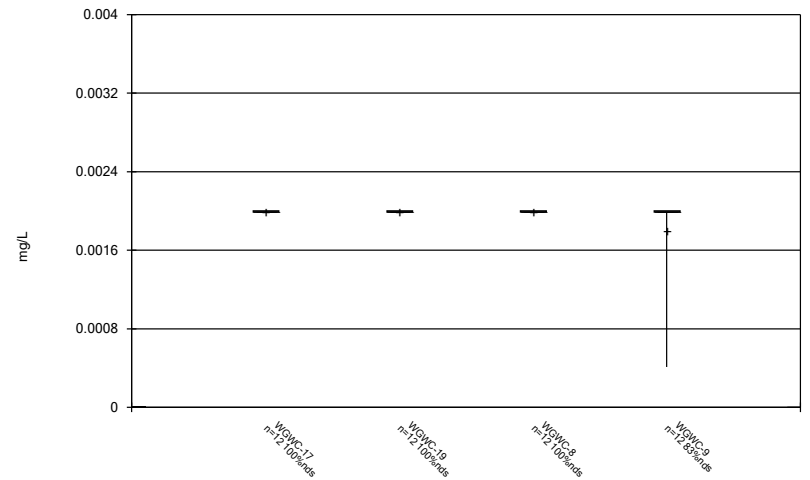
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



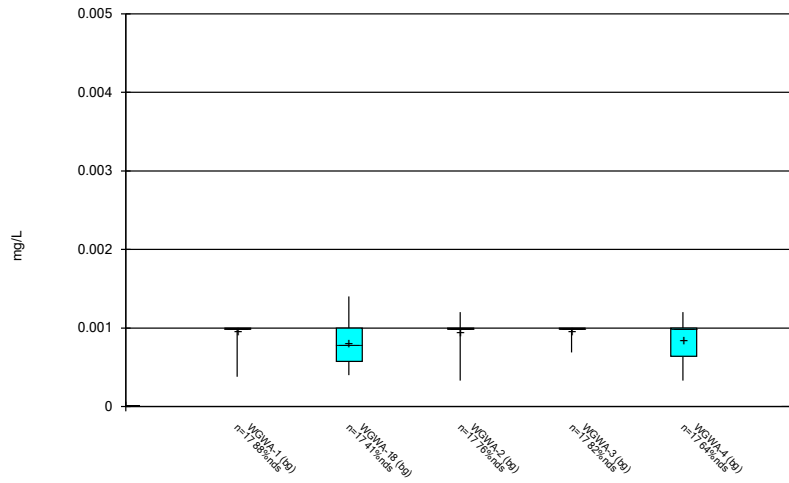
Constituent: Antimony Analysis Run 1/8/2021 10:21 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



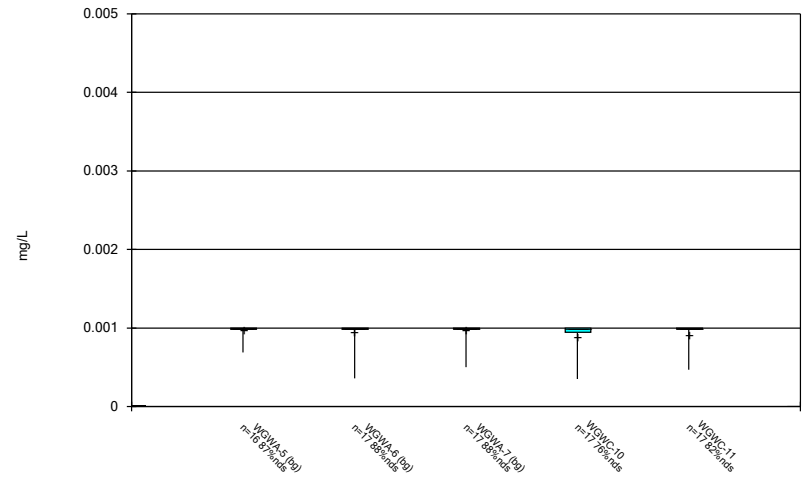
Constituent: Antimony Analysis Run 1/8/2021 10:21 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



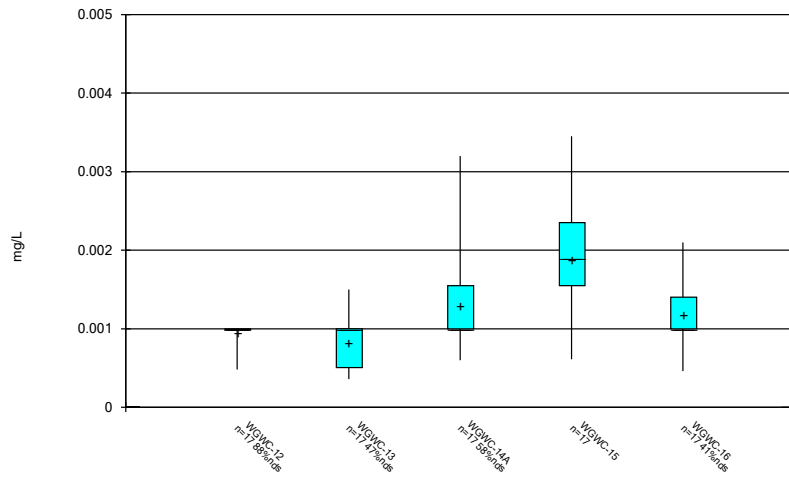
Constituent: Arsenic Analysis Run 1/8/2021 10:21 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



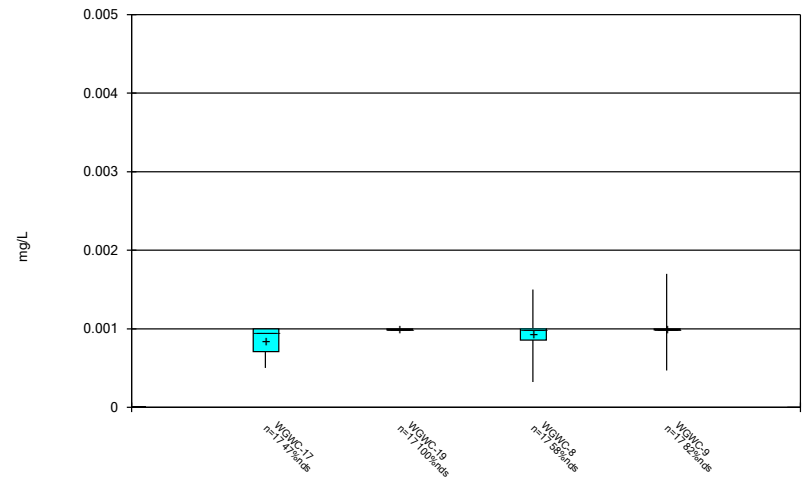
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



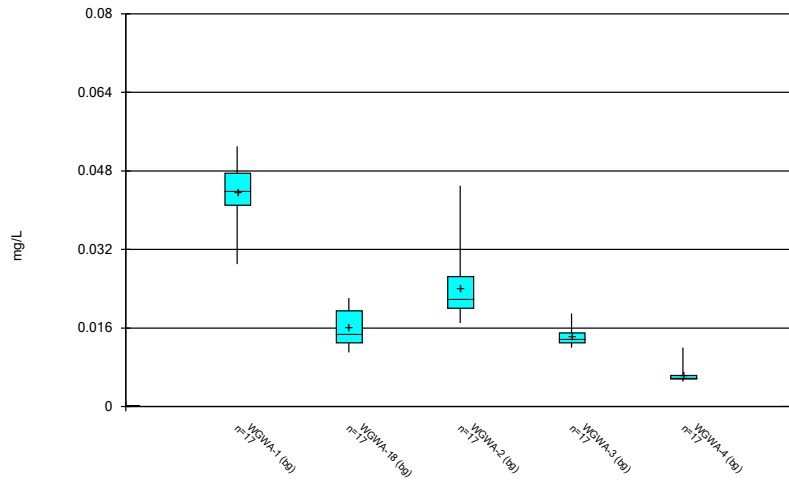
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



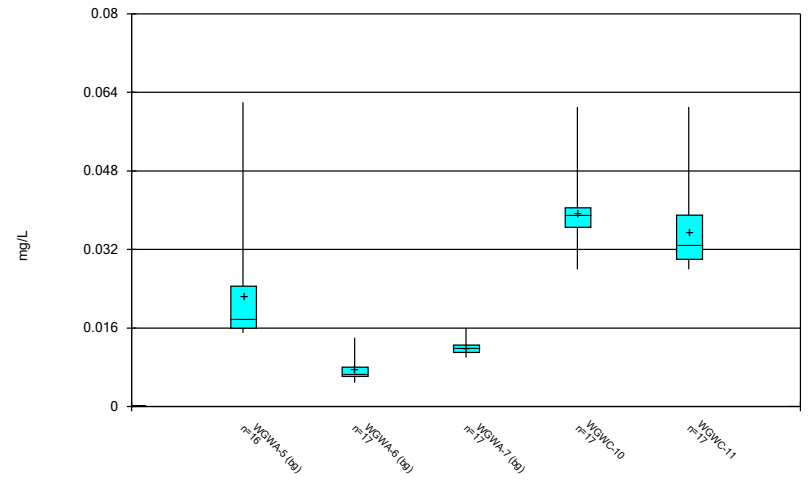
Constituent: Arsenic Analysis Run 1/8/2021 10:21 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



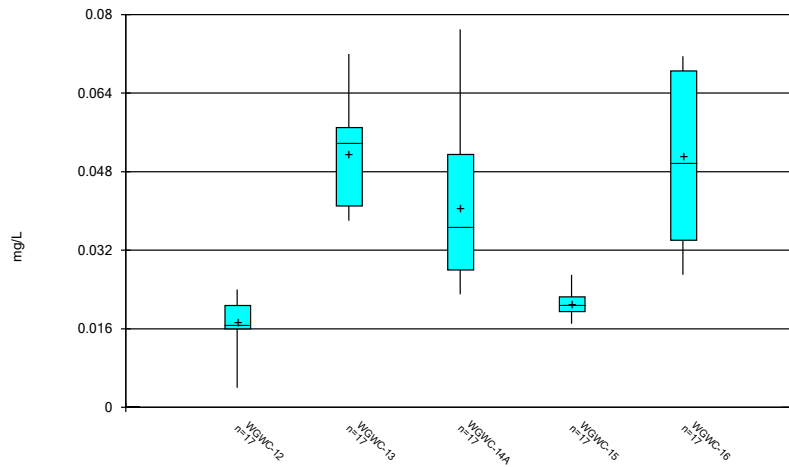
Constituent: Barium Analysis Run 1/8/2021 10:21 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



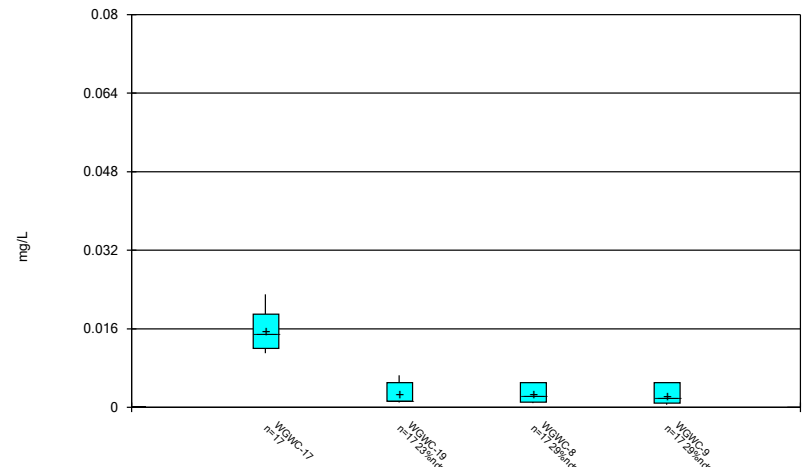
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



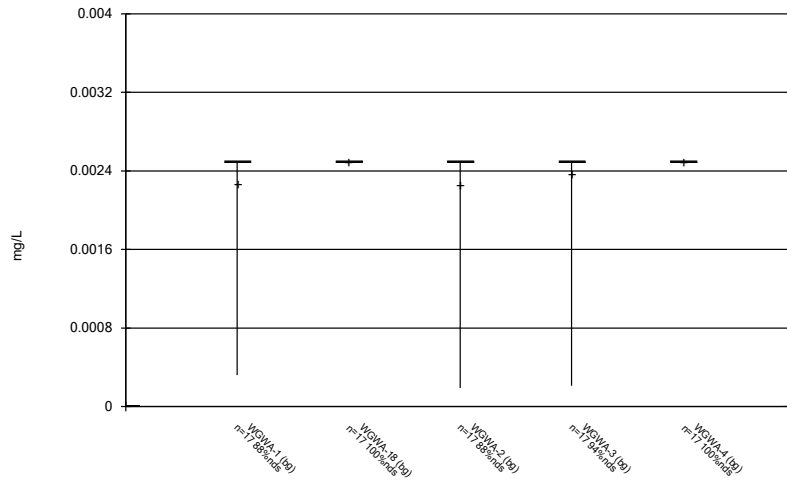
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



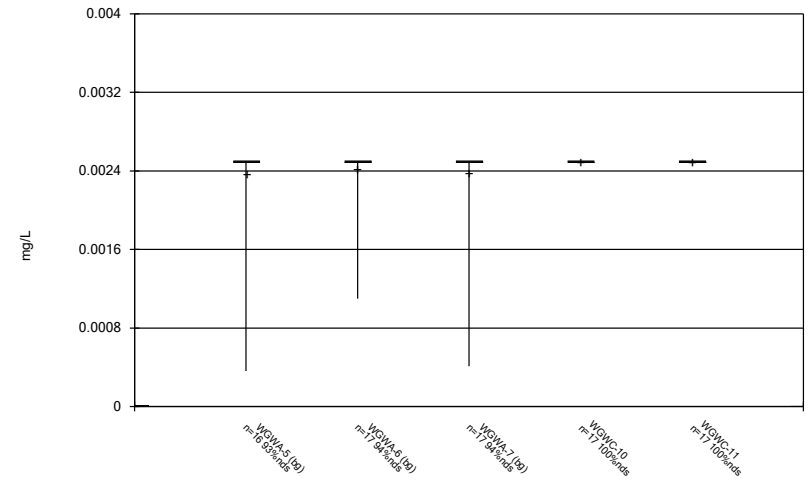
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



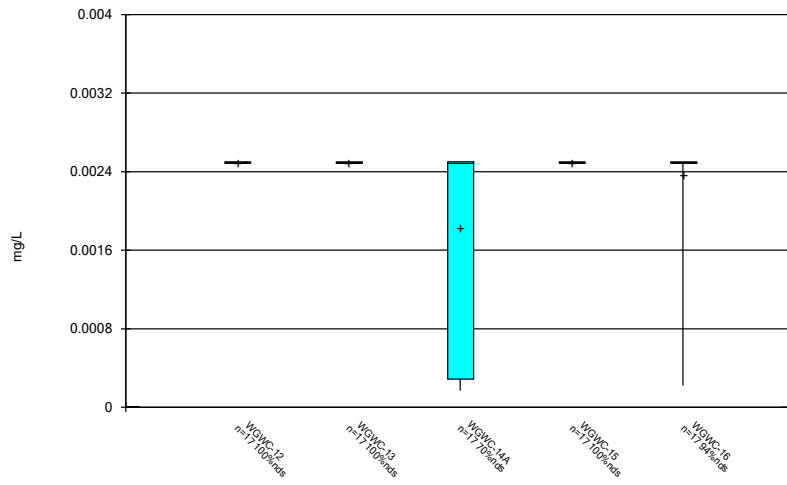
Constituent: Beryllium Analysis Run 1/8/2021 10:21 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



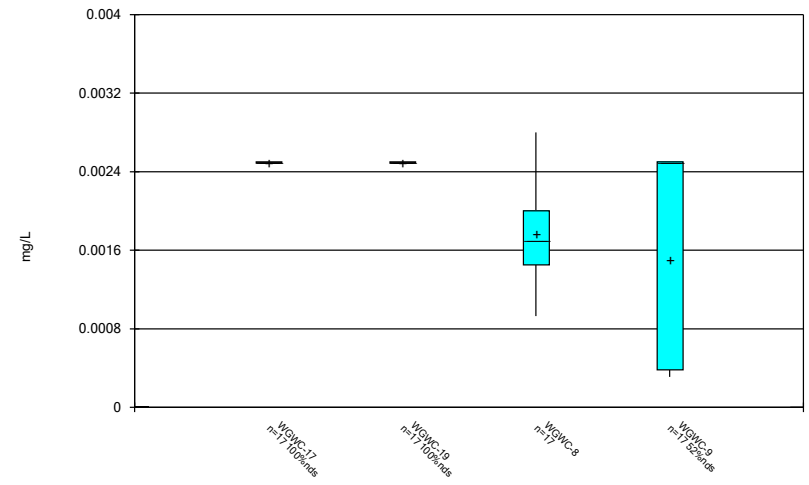
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



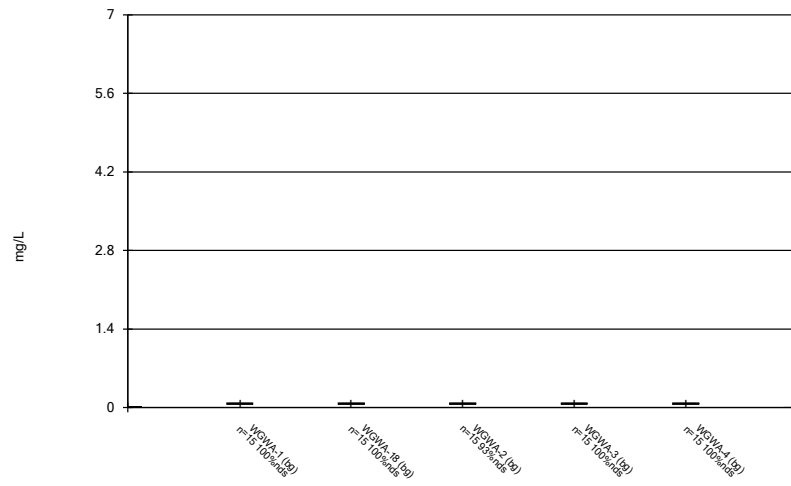
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



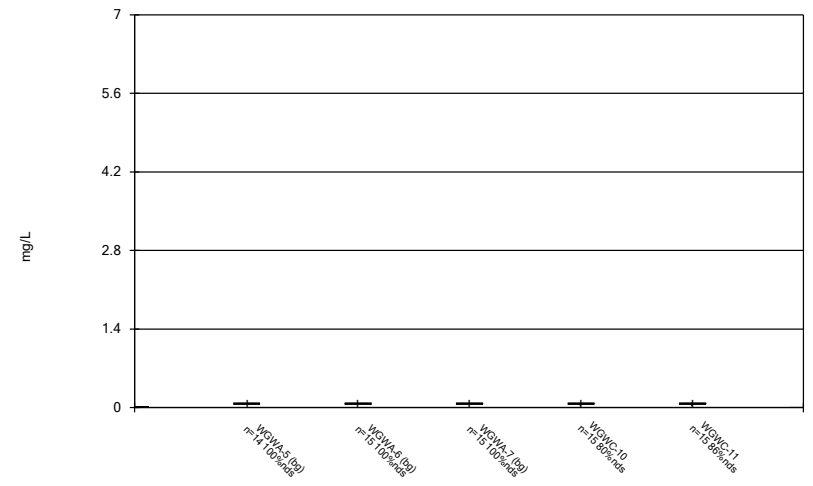
Constituent: Beryllium Analysis Run 1/8/2021 10:21 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



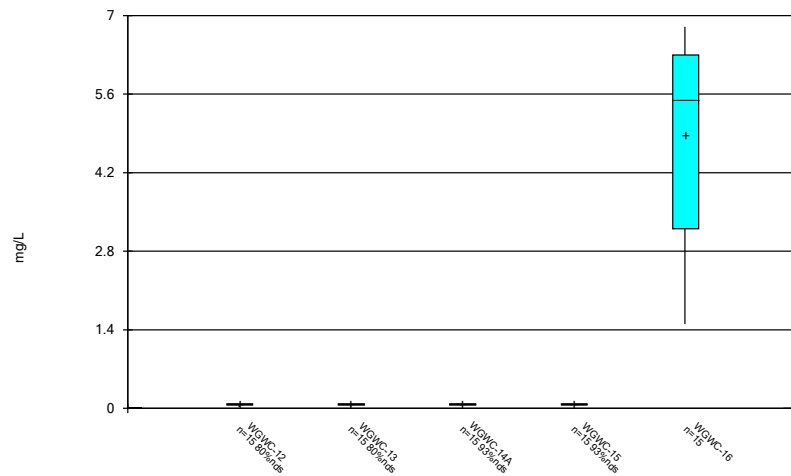
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



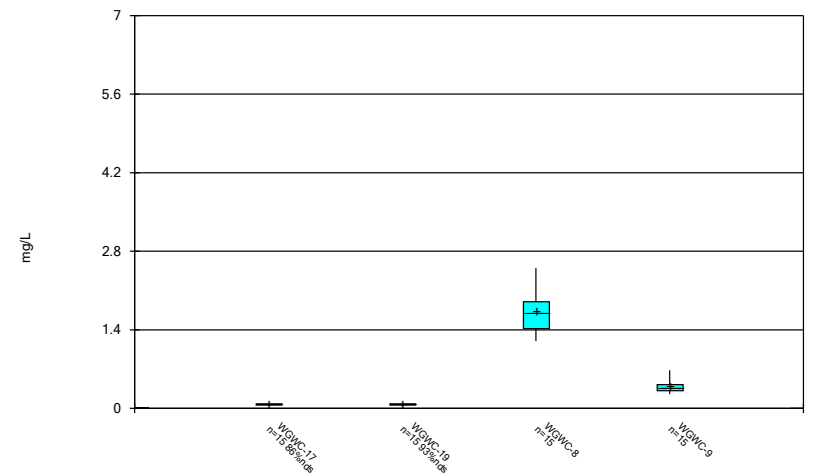
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



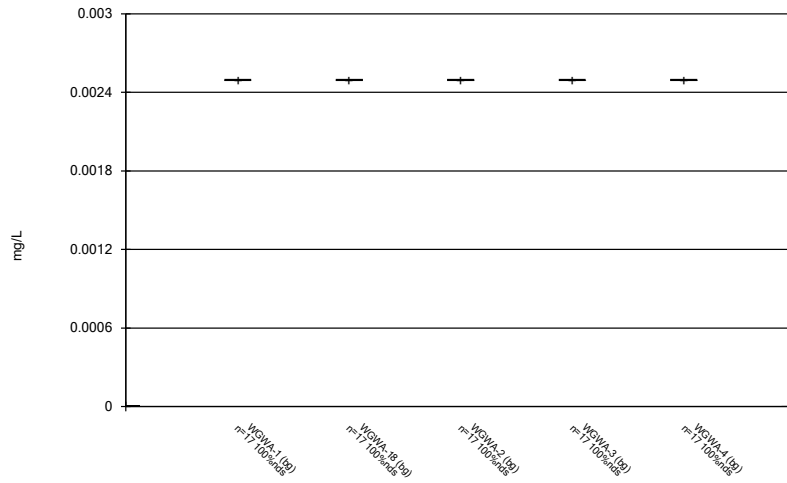
Constituent: Boron Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



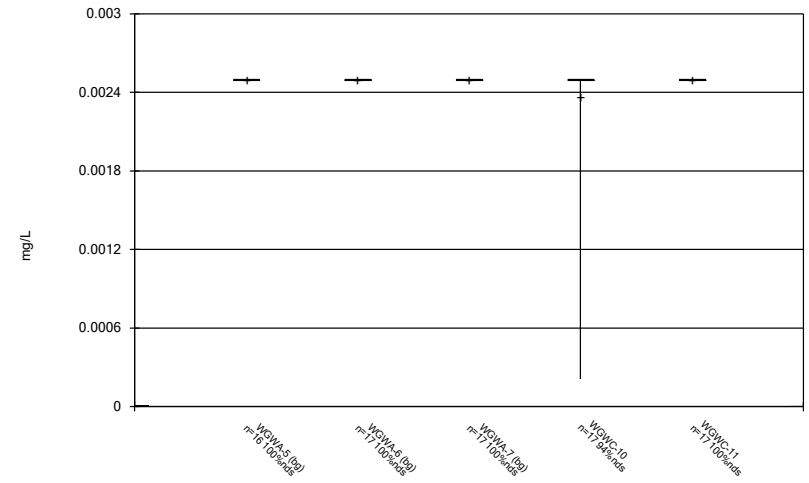
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



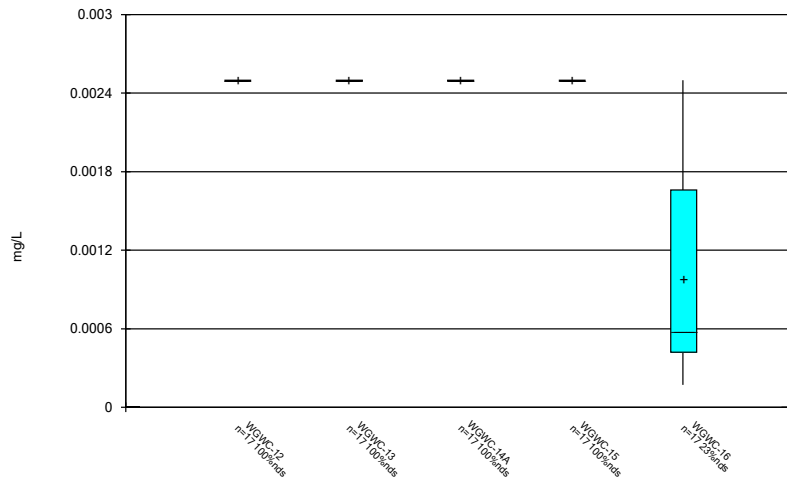
Constituent: Cadmium Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



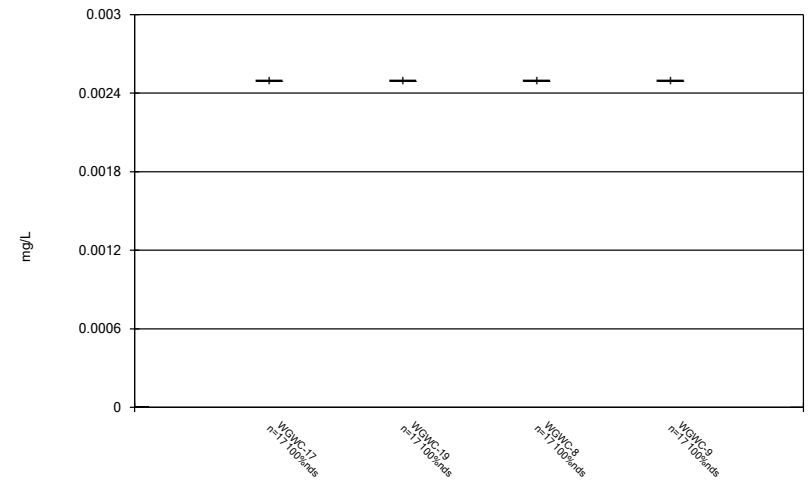
Constituent: Cadmium Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



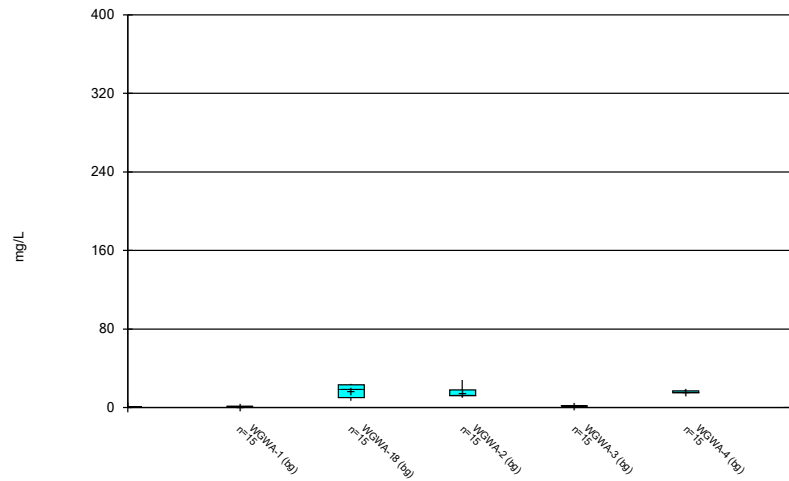
Constituent: Cadmium Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



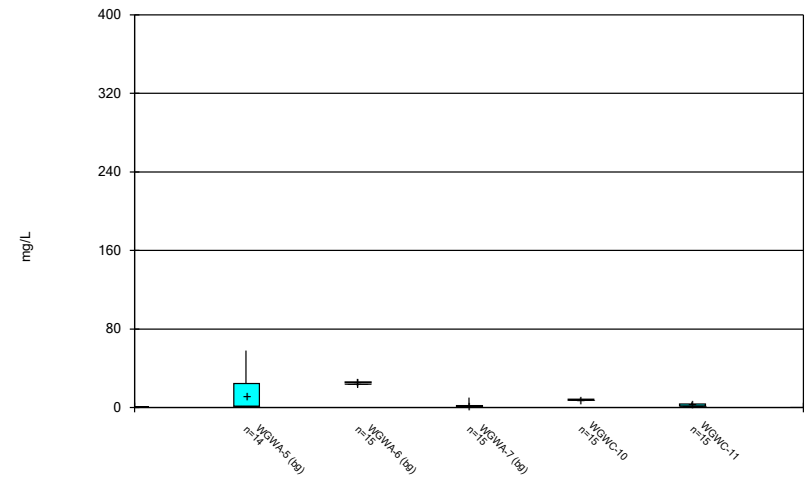
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



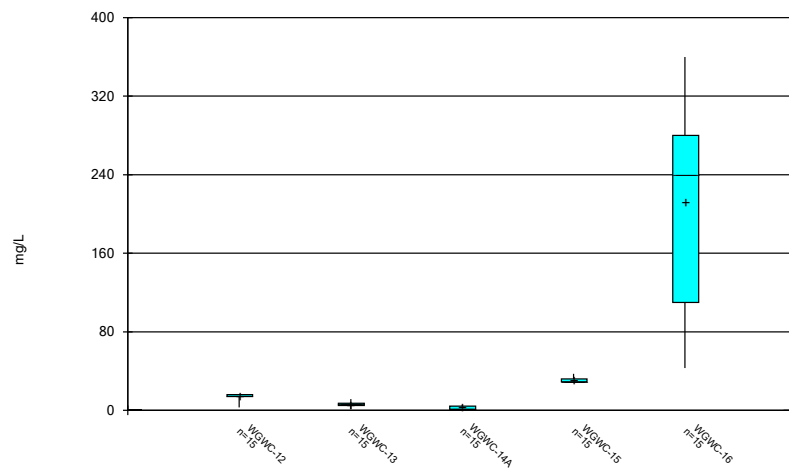
Constituent: Calcium Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



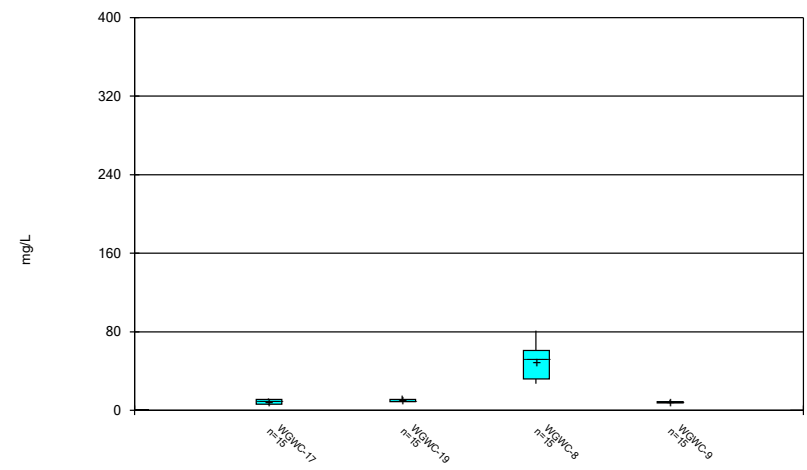
Constituent: Calcium Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



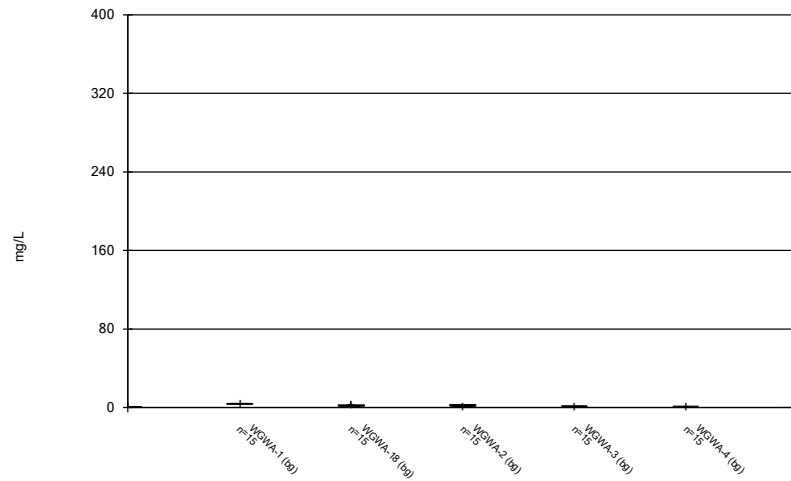
Constituent: Calcium Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



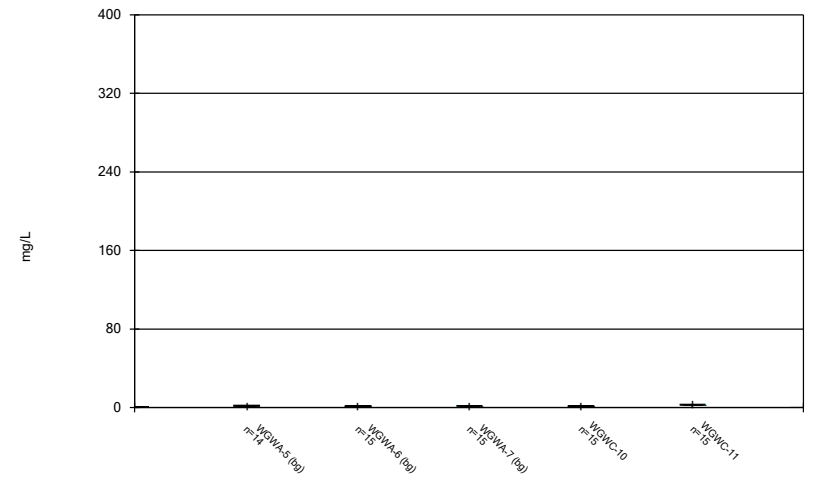
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



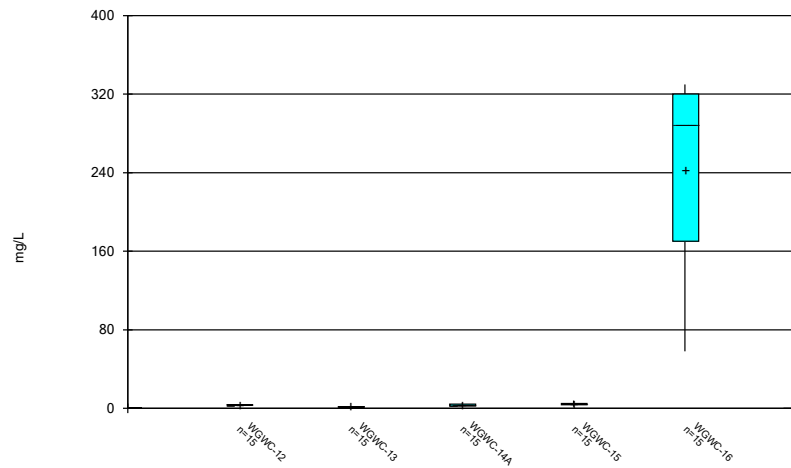
Constituent: Chloride Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



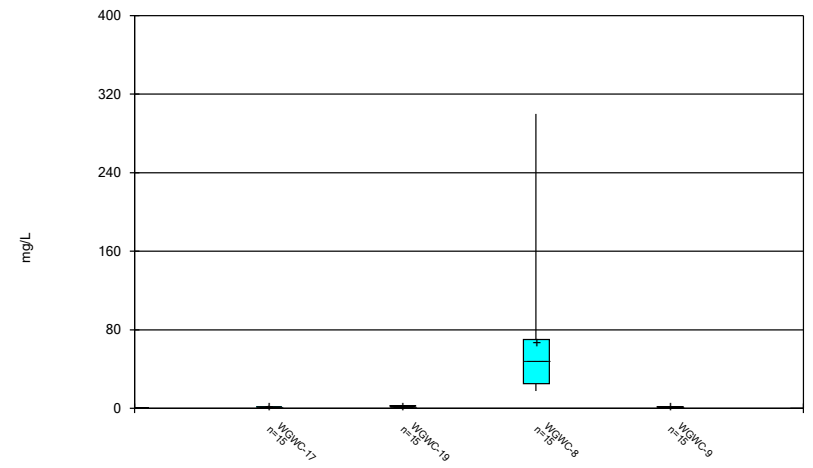
Constituent: Chloride Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



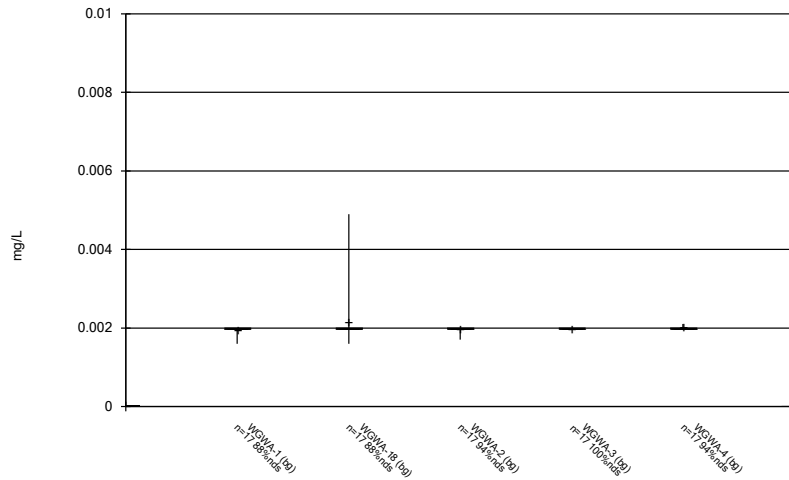
Constituent: Chloride Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



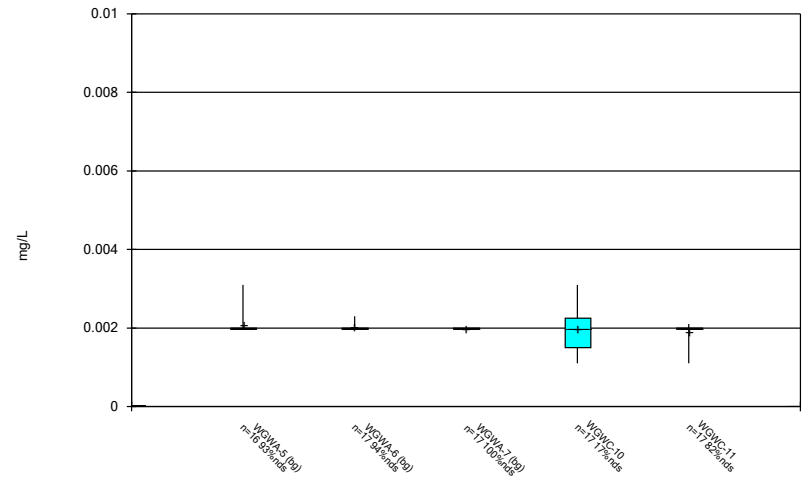
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



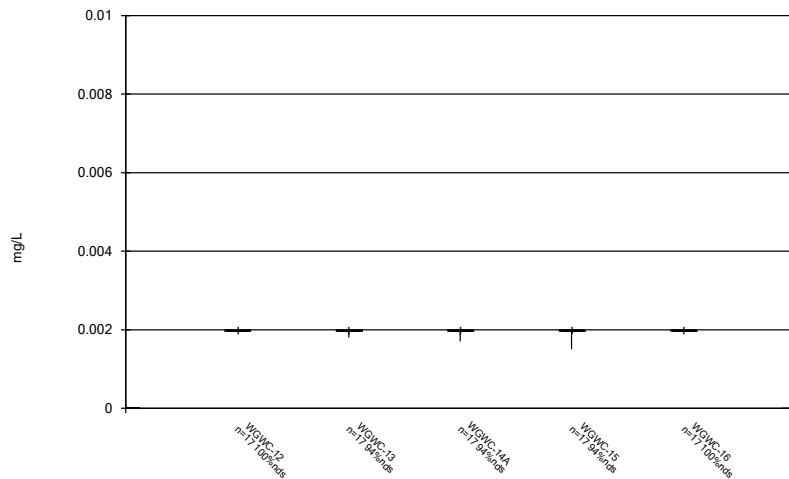
Constituent: Chromium Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



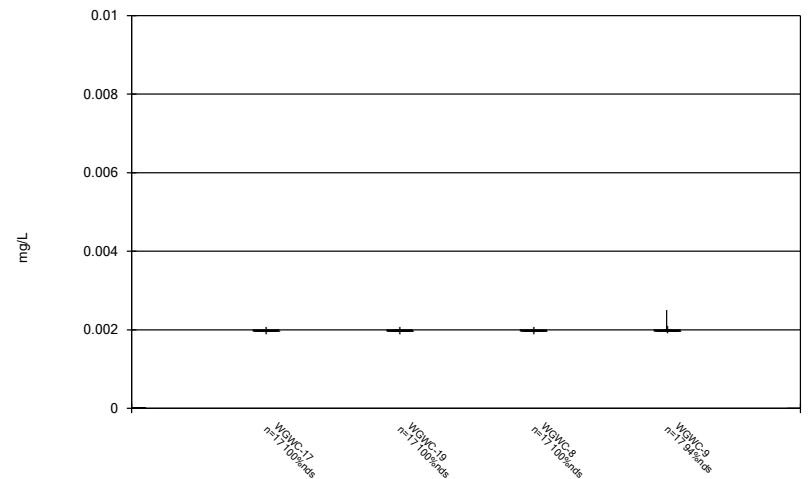
Constituent: Chromium Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



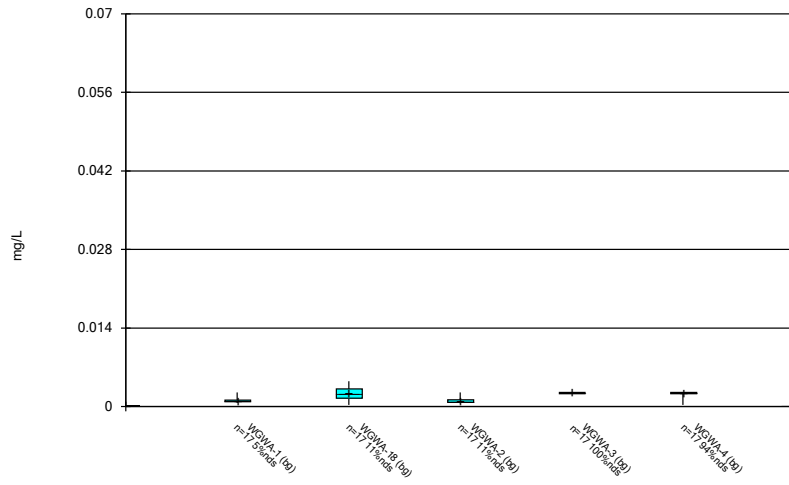
Constituent: Chromium Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



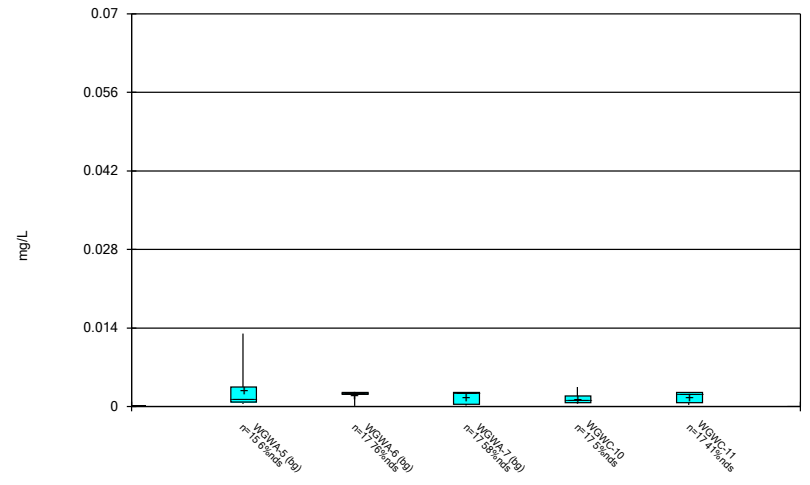
Constituent: Chromium Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



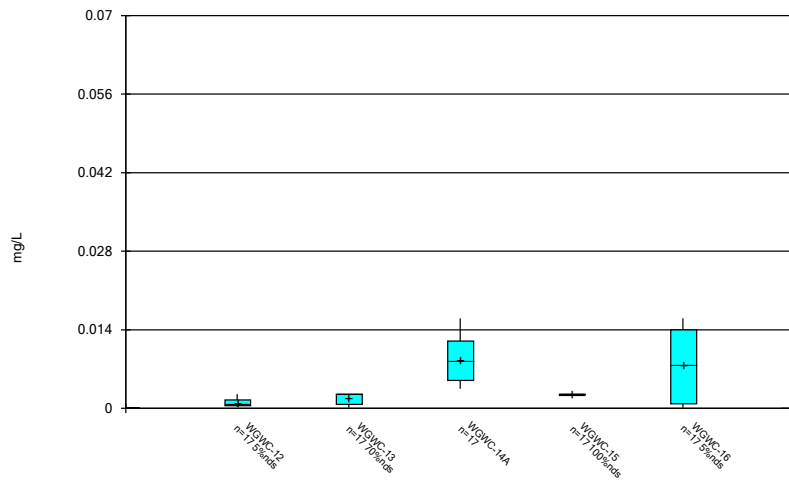
Constituent: Cobalt Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



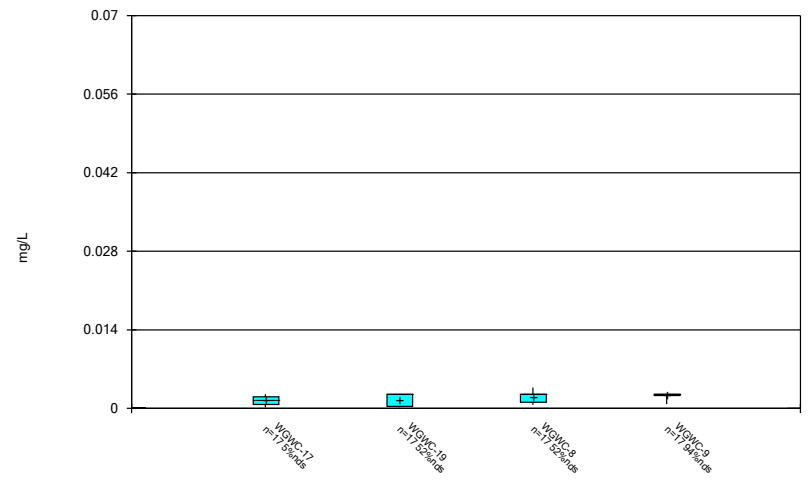
Constituent: Cobalt Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



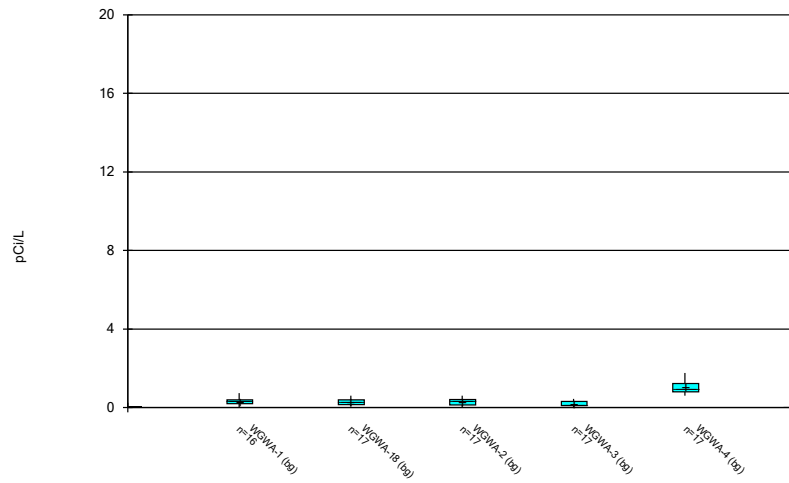
Constituent: Cobalt Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



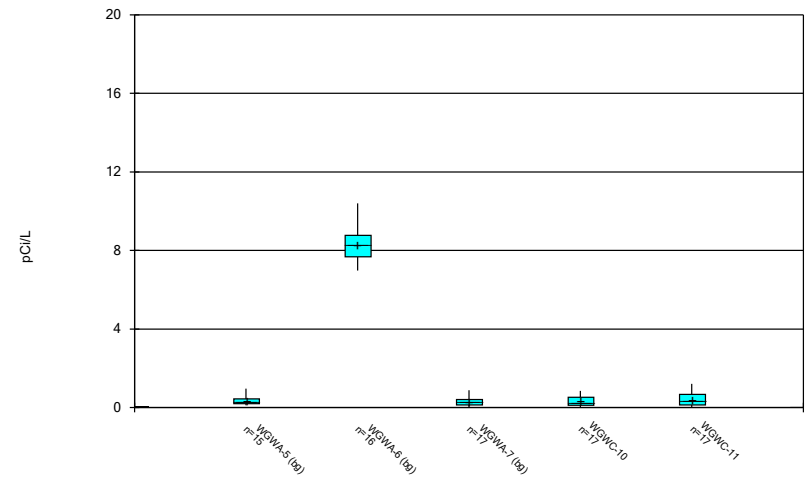
Constituent: Cobalt Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



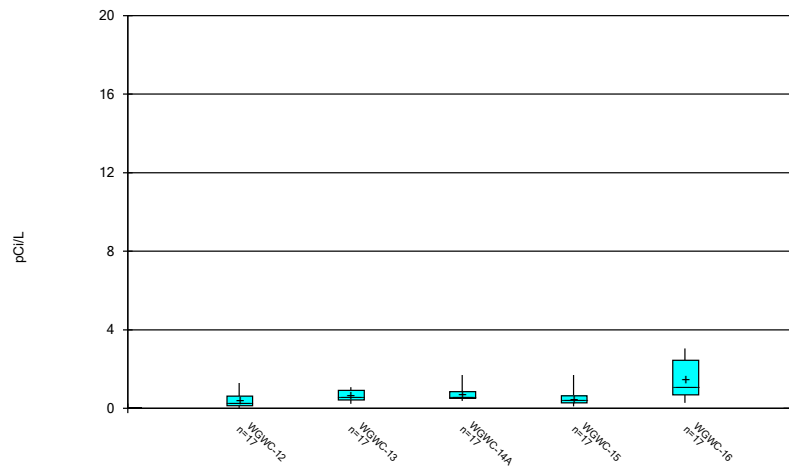
Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



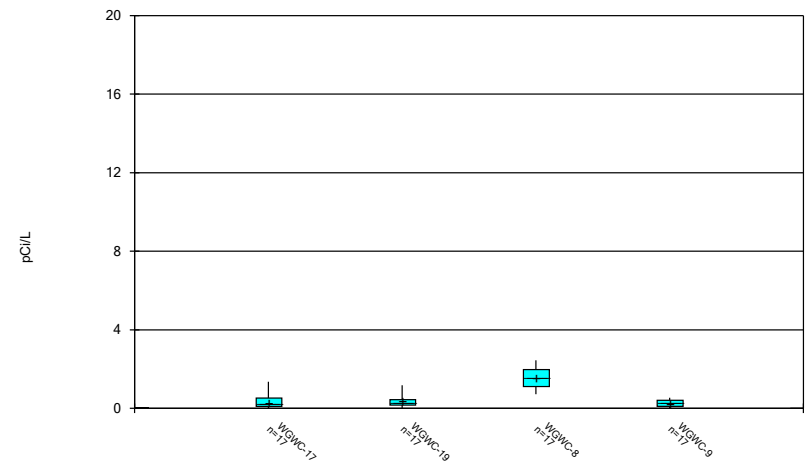
Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



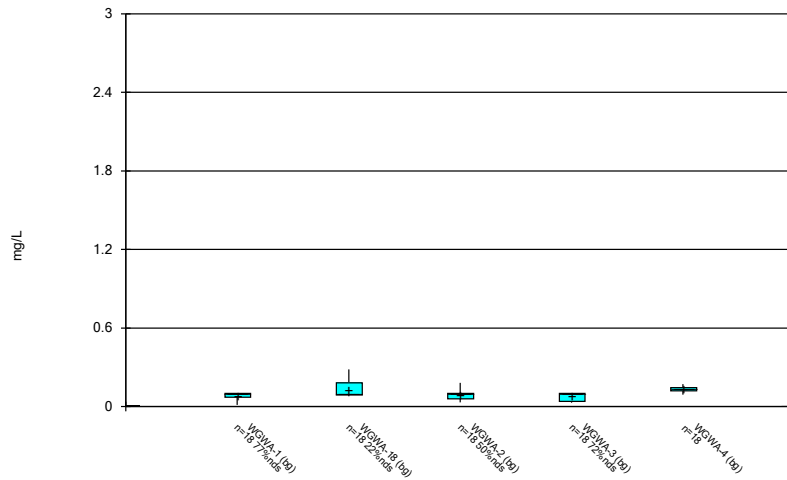
Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



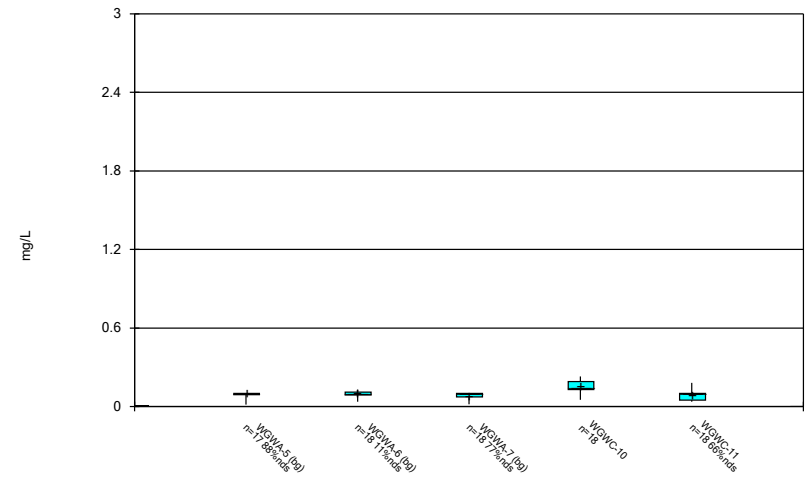
Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



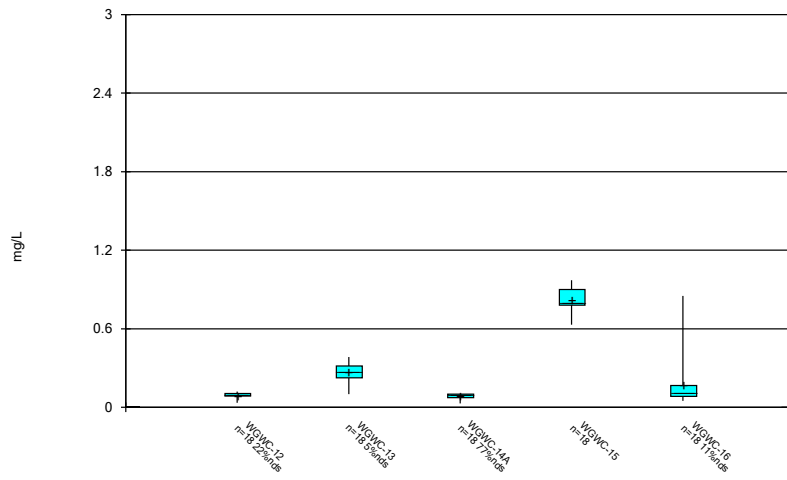
Constituent: Fluoride Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



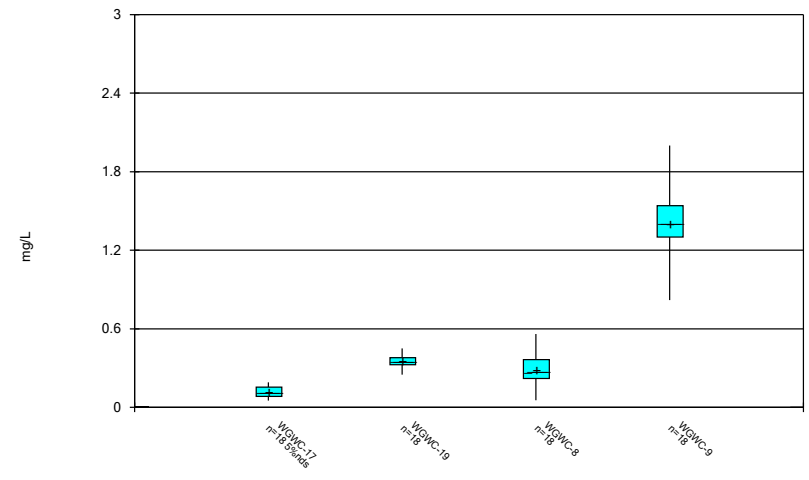
Constituent: Fluoride Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



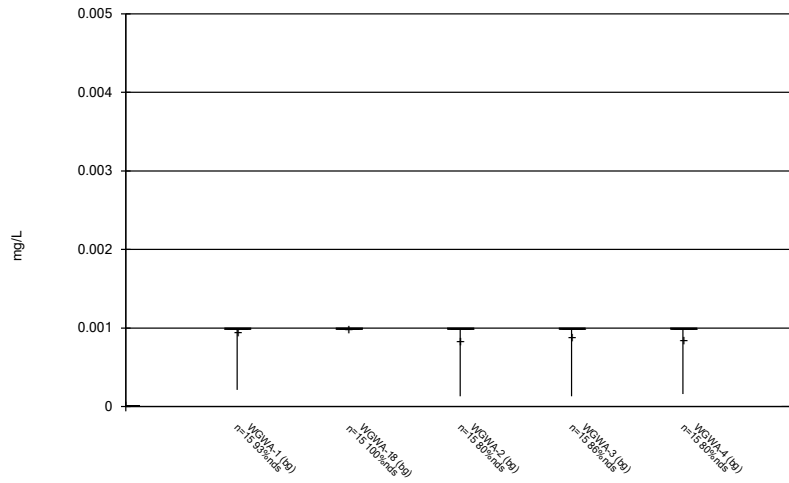
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



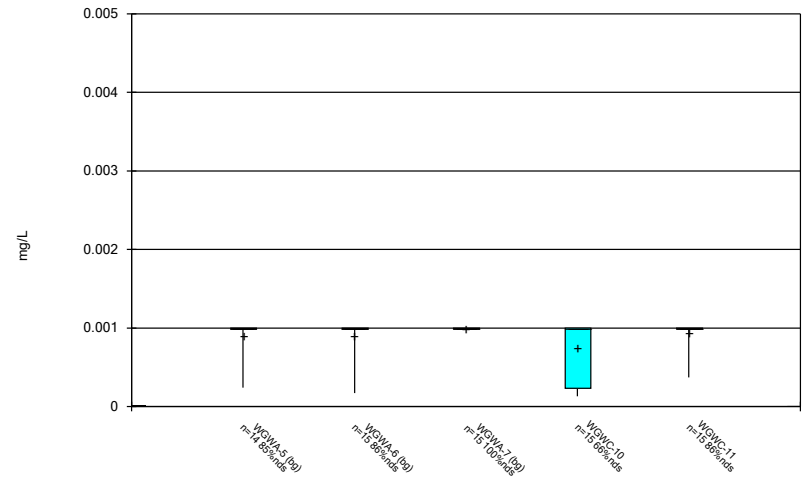
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



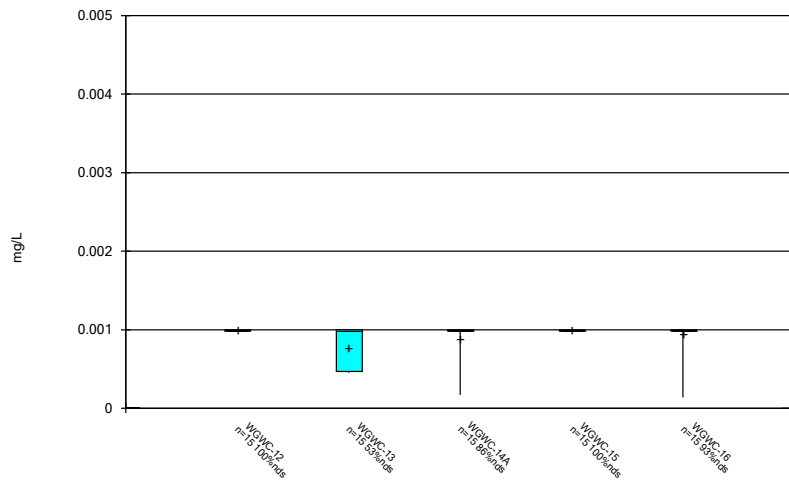
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



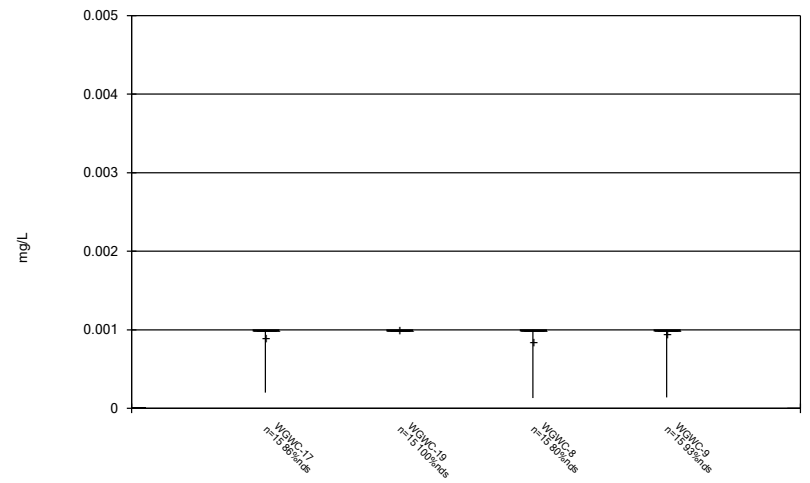
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



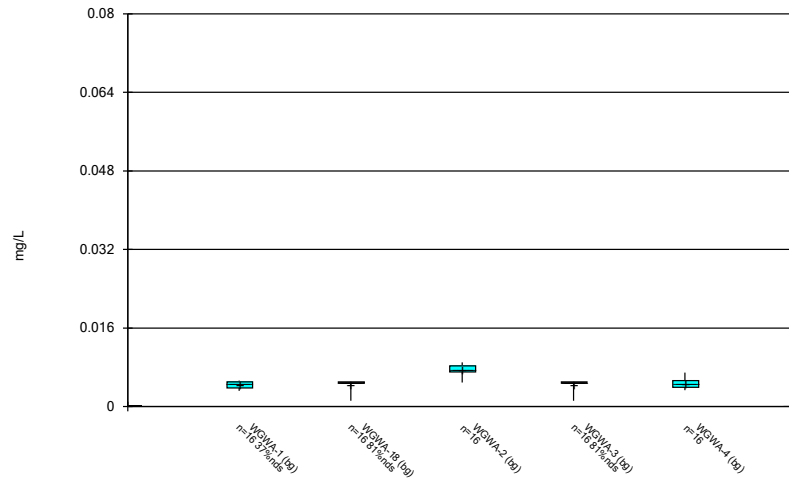
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



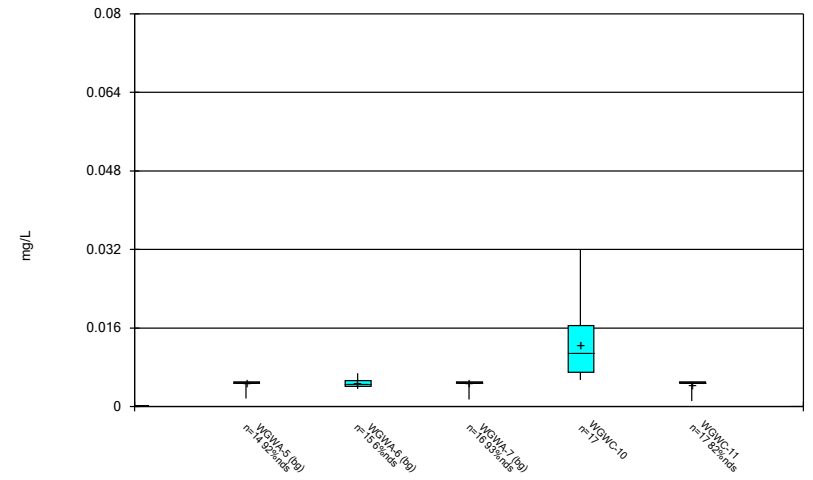
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



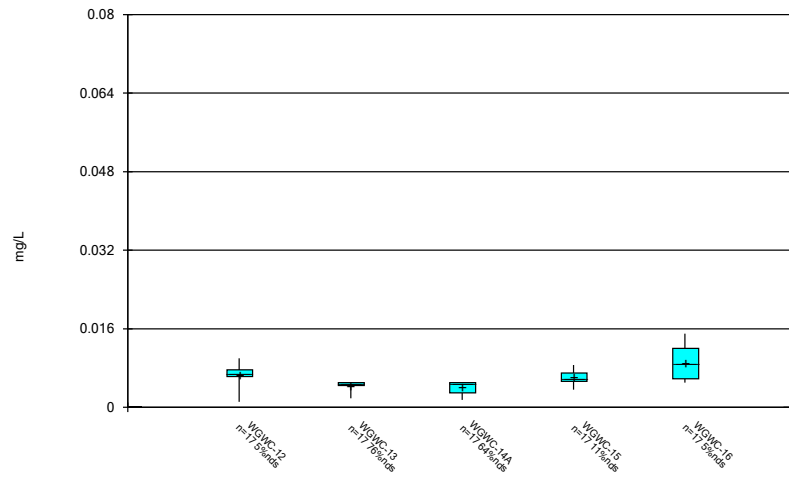
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



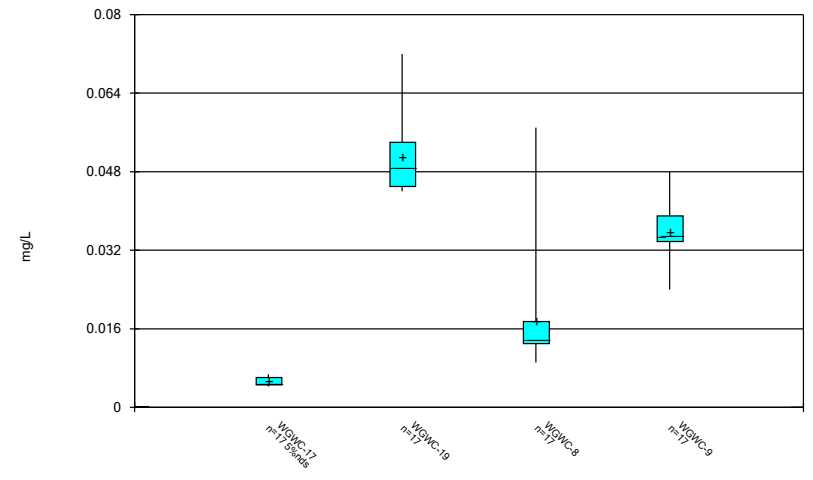
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



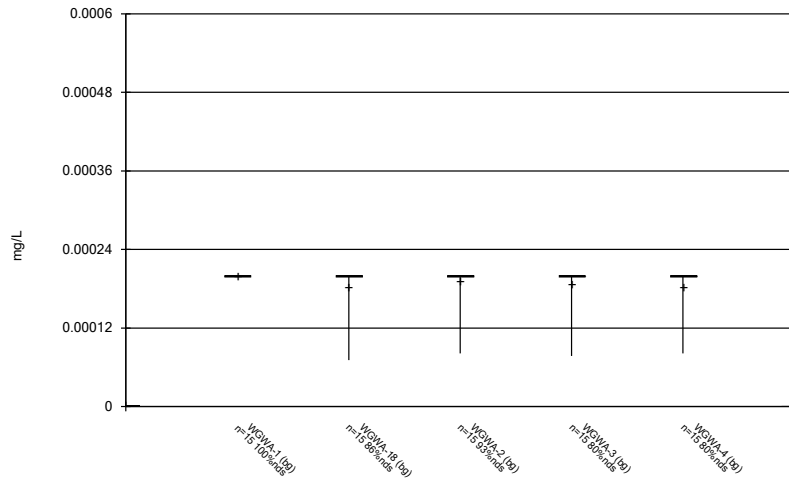
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Box & Whiskers Plot



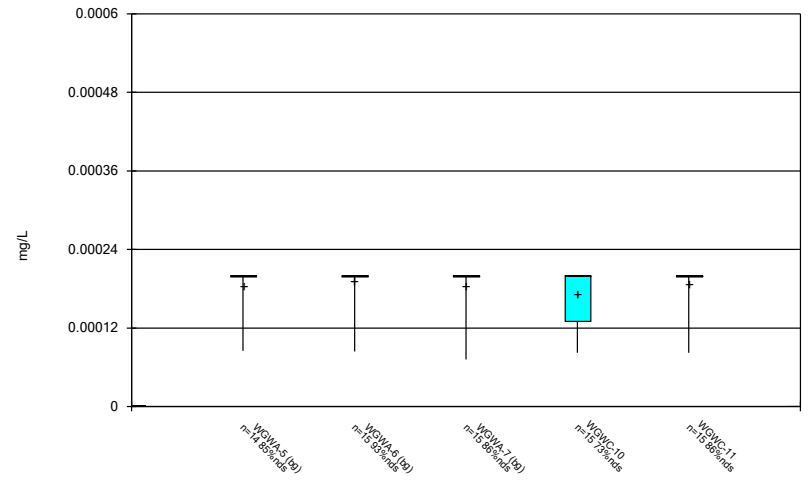
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



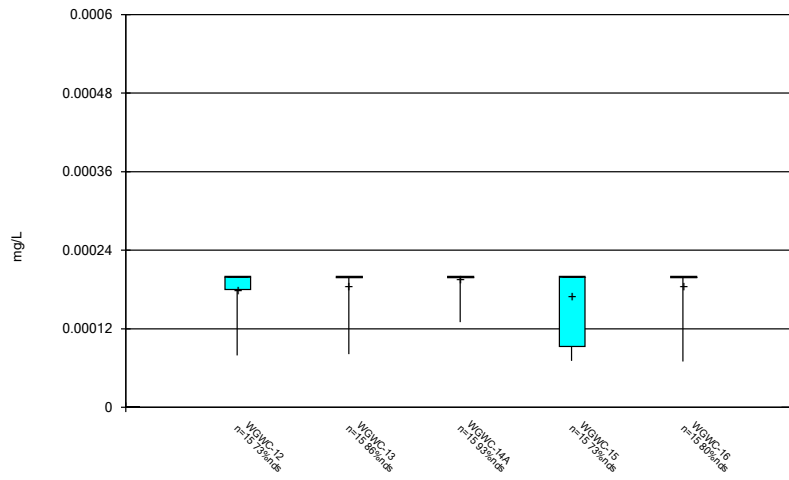
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



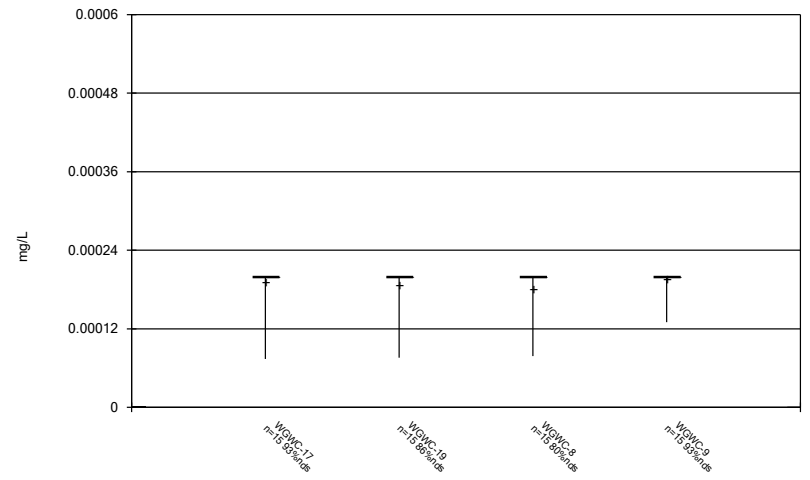
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



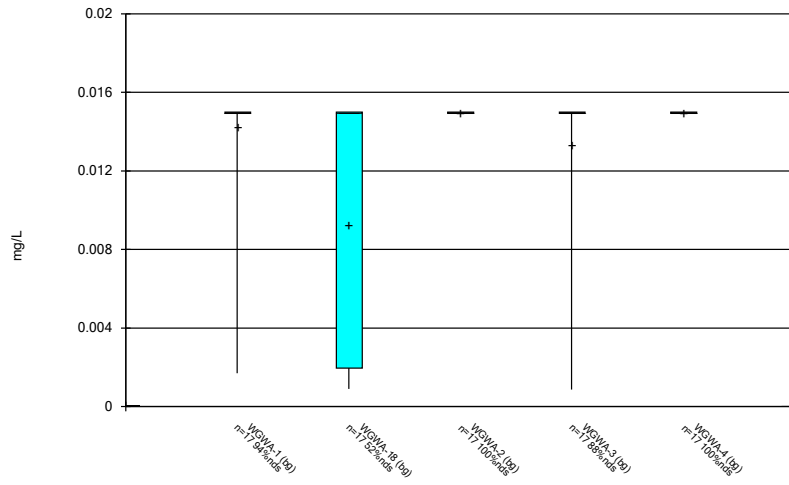
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



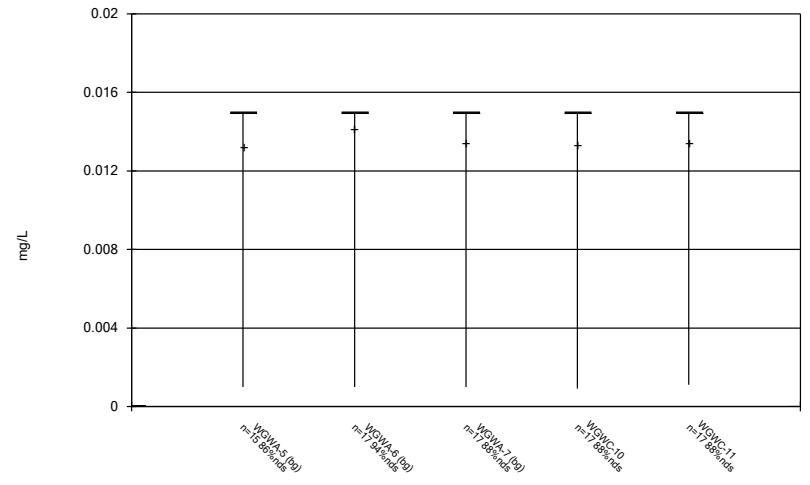
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



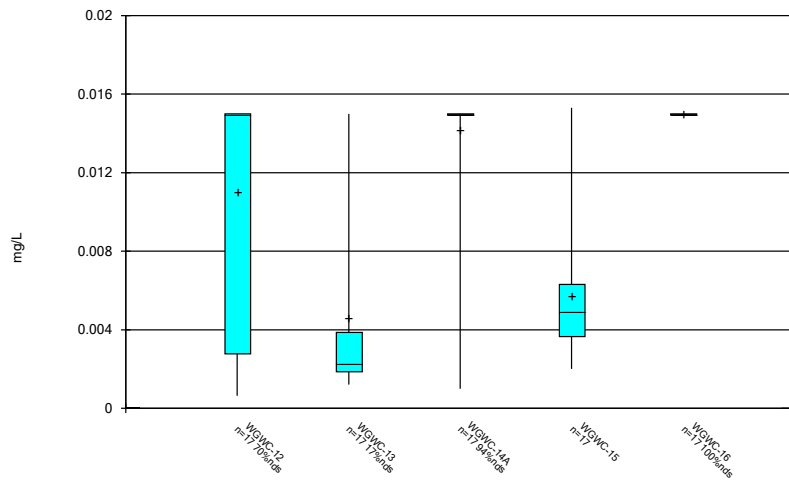
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



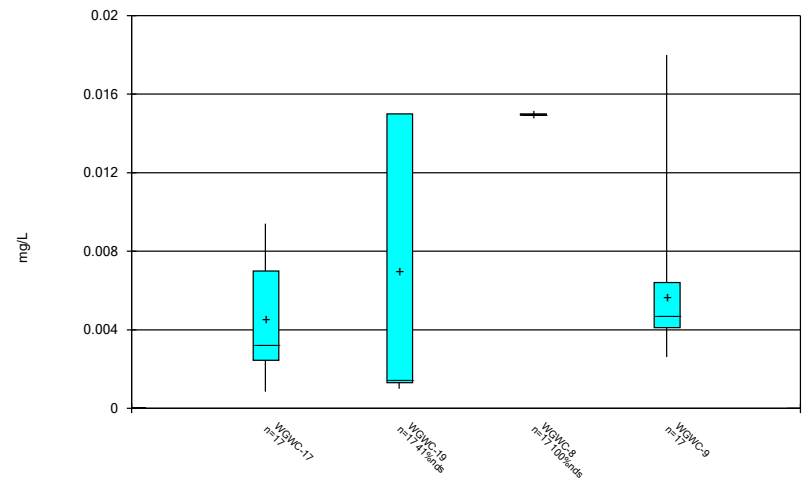
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



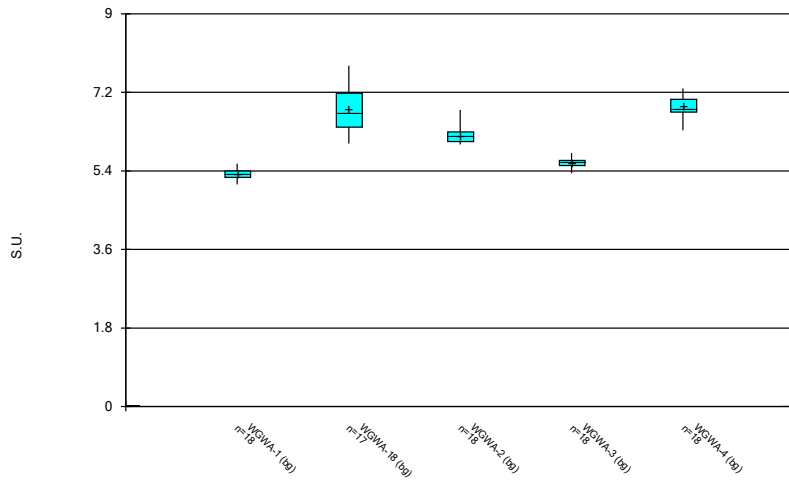
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



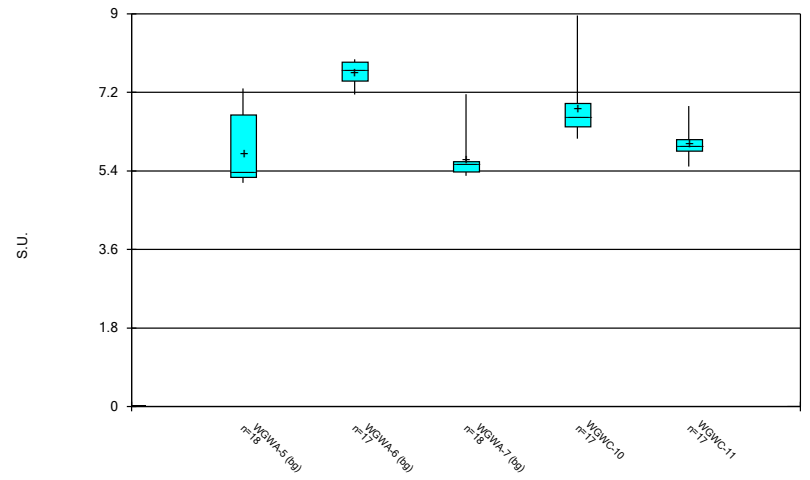
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



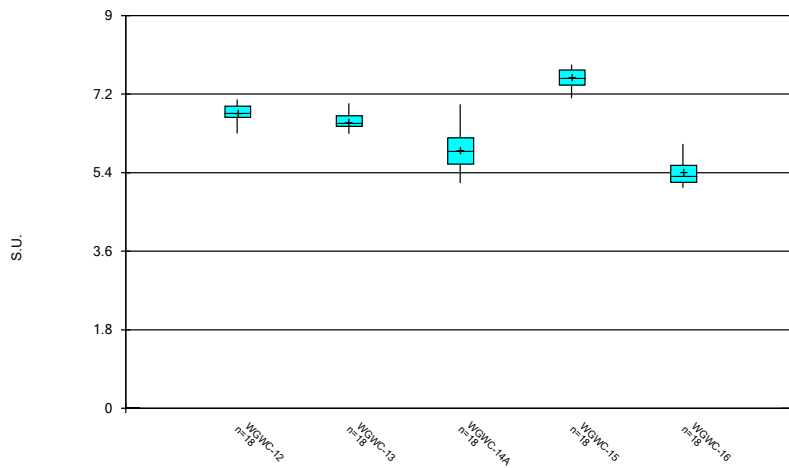
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



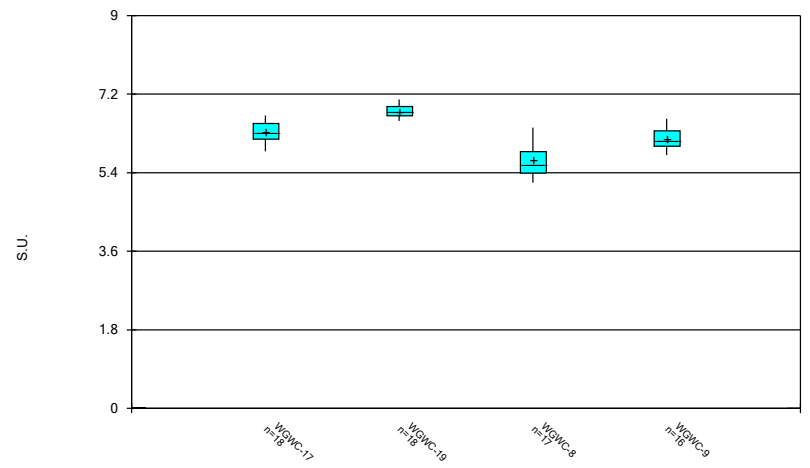
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



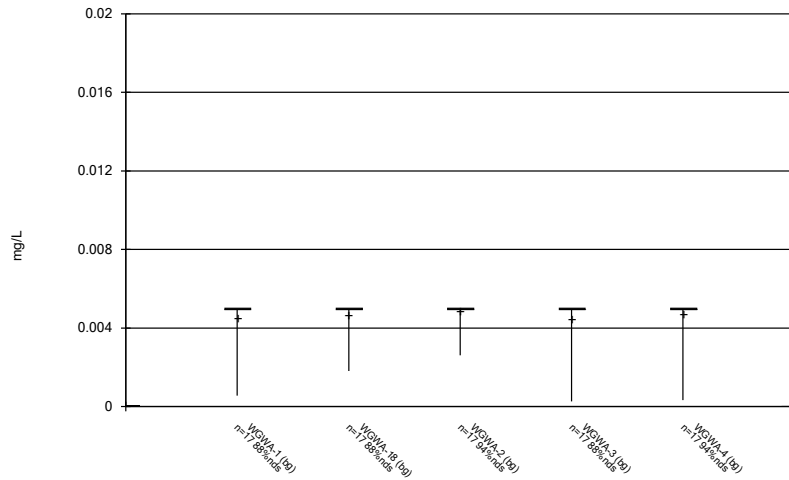
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



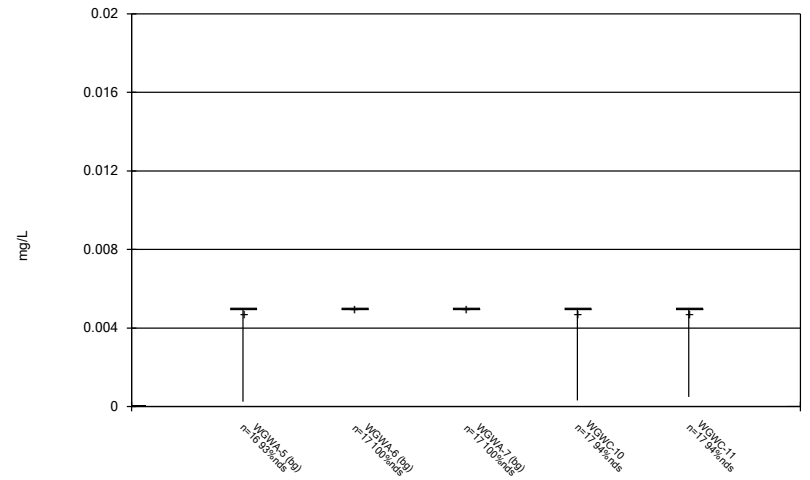
Constituent: pH Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



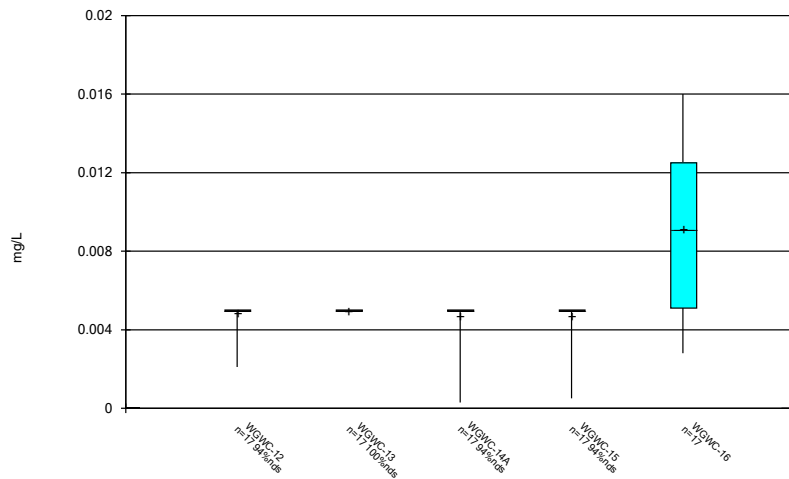
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



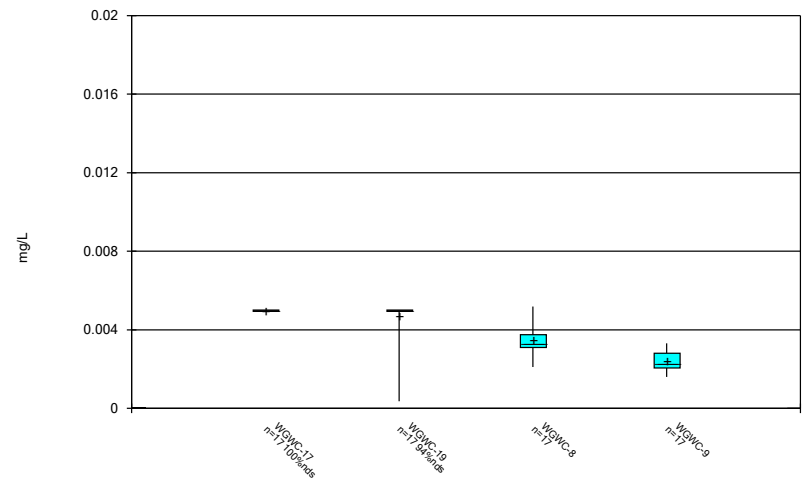
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



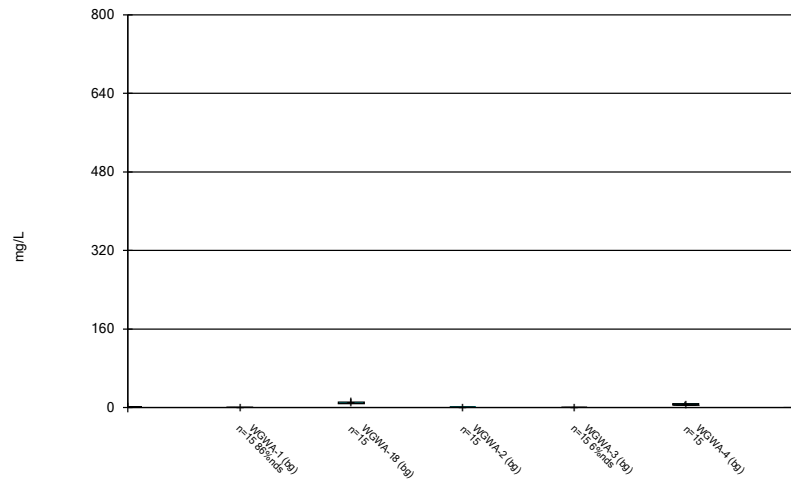
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



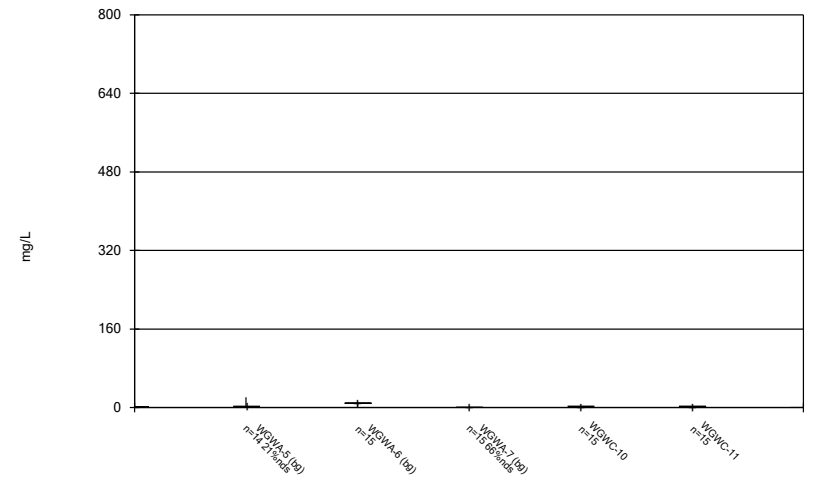
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



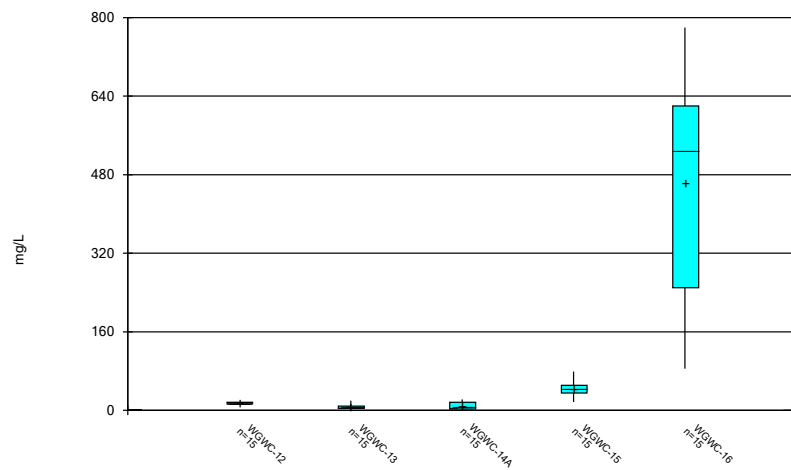
Constituent: Sulfate Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



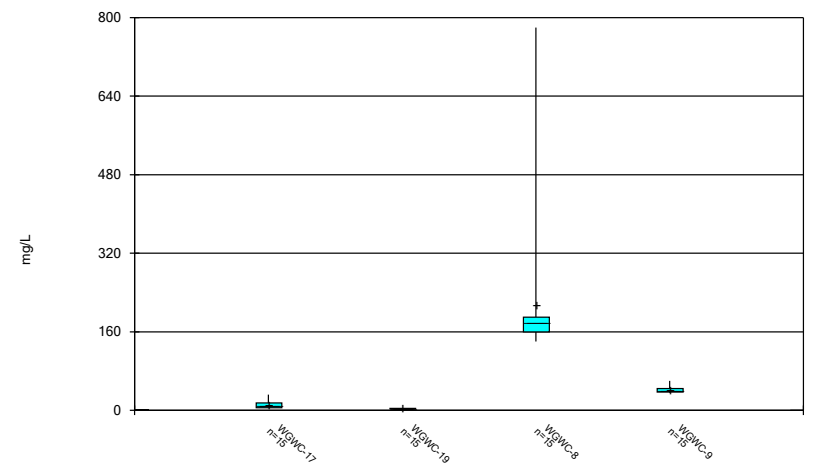
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



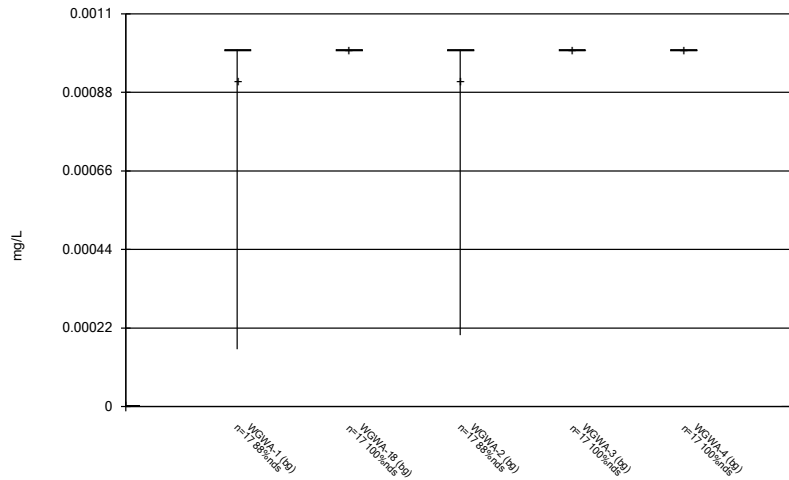
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



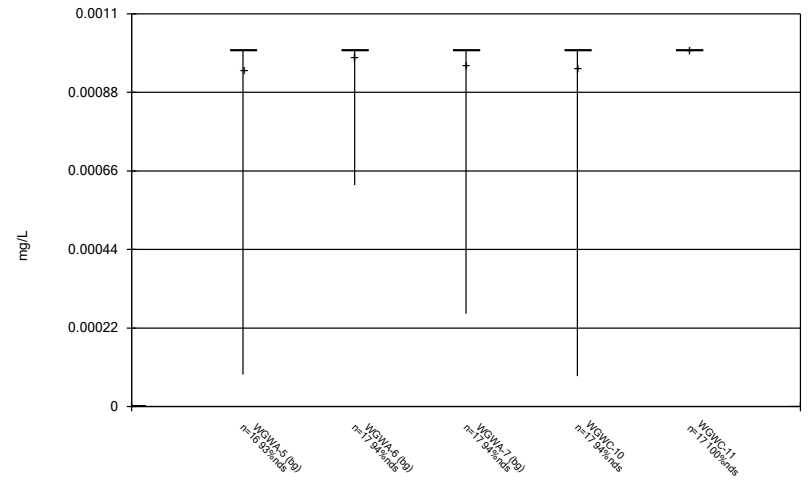
Constituent: Sulfate Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



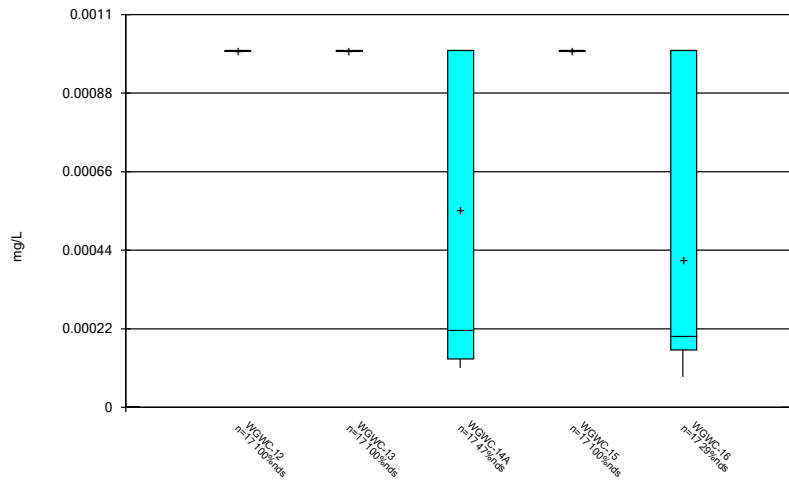
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



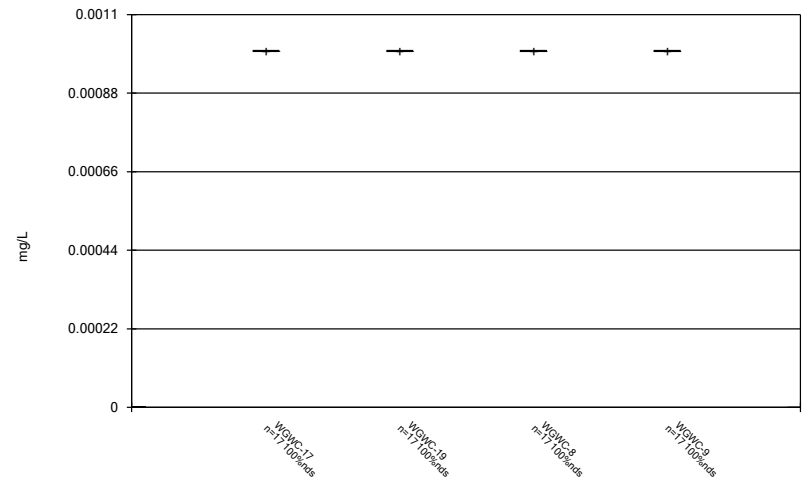
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



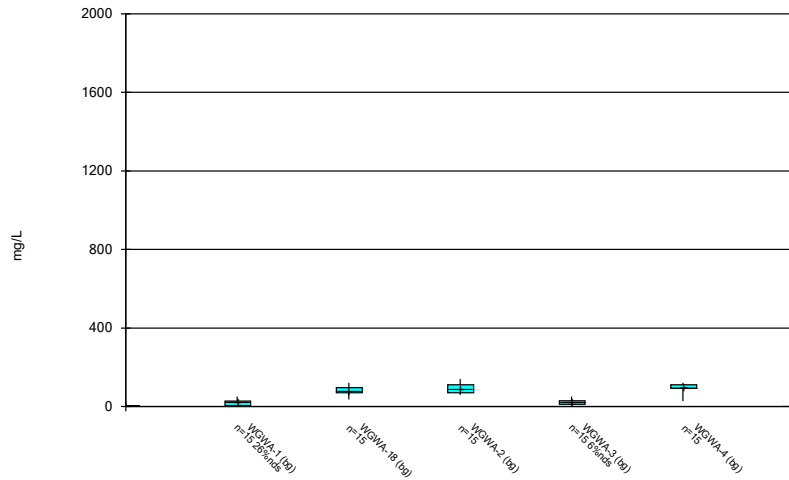
Constituent: Thallium Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



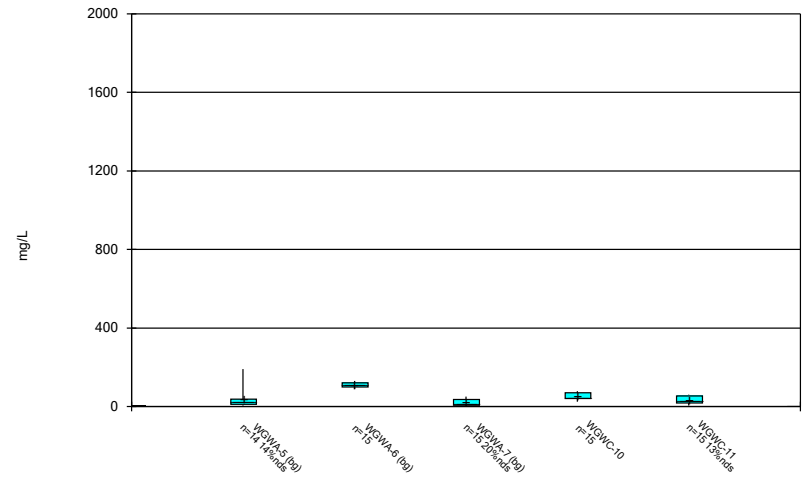
Constituent: Thallium Analysis Run 1/8/2021 10:22 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



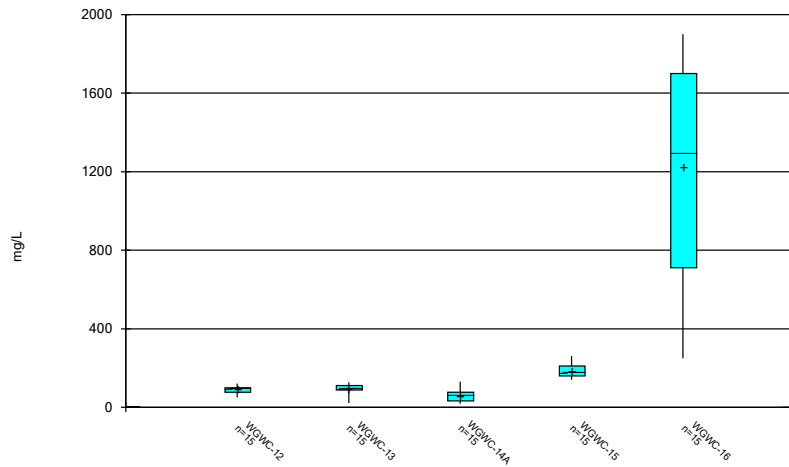
Constituent: Total Dissolved Solids Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



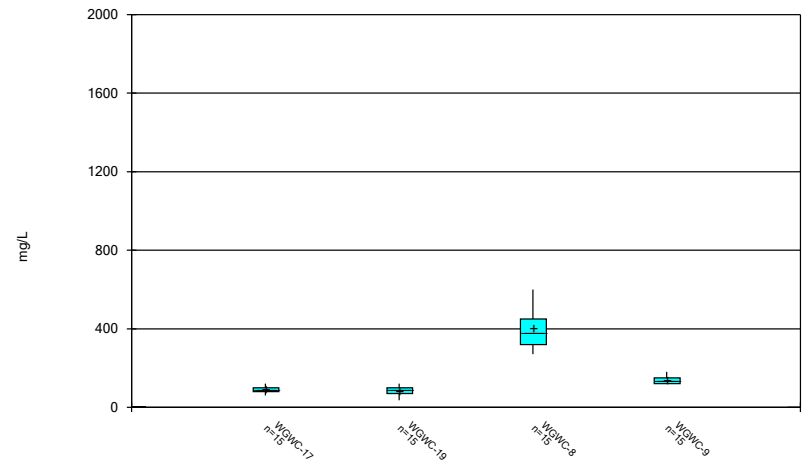
Constituent: Total Dissolved Solids Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/8/2021 10:22 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/8/2021 10:23 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE C.

Outlier Summary

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:26 AM

Date	WGWA-5 Cobalt (mg/L)	WGWA-1 Combined Radium 226 + 228 (pCi/L)	WGWA-6 Combined Radium 226 + 228 (pCi/L)	WGWA-1 Lithium (mg/L)	WGWA-18 Lithium (mg/L)	WGWA-2 Lithium (mg/L)	WGWA-3 Lithium (mg/L)	WGWA-4 Lithium (mg/L)	WGWA-5 Lithium (mg/L)	WGWA-6 Lithium (mg/L)
5/17/2016			<0.05 (o)	<0.05 (o)	<0.05 (o)					
5/18/2016						<0.05 (o)	<0.05 (o)	<0.05 (o)	<0.05 (o)	
7/19/2016	7.25 (o)									
9/14/2016										
1/19/2017	0.064 (O)									
3/14/2017		0.589 (O)								
9/16/2019								0.028 (o)	0.032 (o)	

Date	WGWA-7 Lithium (mg/L)	WGWA-5 Molybdenum (mg/L)
5/17/2016		
5/18/2016	<0.05 (o)	
7/19/2016		
9/14/2016	0.016 (o)	
1/19/2017		
3/14/2017		
9/16/2019		

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq	N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	WGWC-16	0.08	n/a	9/23/2020	1.5	Yes	119	n/a	n/a	99.16	n/a	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	9/22/2020	2.5	Yes	119	n/a	n/a	99.16	n/a	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	9/23/2020	0.68	Yes	119	n/a	n/a	99.16	n/a	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-8	58	n/a	9/22/2020	81	Yes	119	n/a	n/a	0	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	9/23/2020	58	Yes	119	n/a	n/a	0	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	9/22/2020	100	Yes	119	n/a	n/a	0	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	9/23/2020	0.63	Yes	143	n/a	n/a	49.65	n/a	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	9/23/2020	0.82	Yes	143	n/a	n/a	49.65	n/a	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-16	7.96	5.09	9/23/2020	5.05	Yes	142	n/a	n/a	0	n/a	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	9/23/2020	85	Yes	119	n/a	n/a	22.69	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	9/22/2020	200	Yes	119	n/a	n/a	22.69	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	9/23/2020	54	Yes	119	n/a	n/a	22.69	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	190	n/a	9/23/2020	250	Yes	119	n/a	n/a	8.403	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	190	n/a	9/22/2020	600	Yes	119	n/a	n/a	8.403	n/a	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:30 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	WGWC-10	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-11	0.08	n/a	9/24/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-12	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-13	0.08	n/a	9/24/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-14A	0.08	n/a	9/24/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-15	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-16	0.08	n/a	9/23/2020	1.5	Yes	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-17	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-19	0.08	n/a	9/23/2020	0.08ND	No	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	9/22/2020	2.5	Yes	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	9/23/2020	0.68	Yes	119	n/a	n/a	99.16	n/a	n/a	0.0001382	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-10	58	n/a	9/23/2020	7.7	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-11	58	n/a	9/24/2020	5.2	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-12	58	n/a	9/23/2020	13	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-13	58	n/a	9/24/2020	1.4	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-14A	58	n/a	9/24/2020	0.99	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-15	58	n/a	9/23/2020	32	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-16	58	n/a	9/23/2020	43	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-17	58	n/a	9/23/2020	5.9	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-19	58	n/a	9/23/2020	13	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-8	58	n/a	9/22/2020	81	Yes	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-9	58	n/a	9/23/2020	10	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-10	6.05	n/a	9/23/2020	1.3	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-11	6.05	n/a	9/24/2020	1	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-12	6.05	n/a	9/23/2020	2.8	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-13	6.05	n/a	9/24/2020	1.6	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-14A	6.05	n/a	9/24/2020	3.1	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-15	6.05	n/a	9/23/2020	1.5	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	9/23/2020	58	Yes	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-17	6.05	n/a	9/23/2020	1.2	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-19	6.05	n/a	9/23/2020	2.6	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	9/22/2020	100	Yes	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-9	6.05	n/a	9/23/2020	2.4	No	119	n/a	n/a	0	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-10	0.284	n/a	9/23/2020	0.09J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-11	0.284	n/a	9/24/2020	0.18	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-12	0.284	n/a	9/23/2020	0.064J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-13	0.284	n/a	9/24/2020	0.1ND	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-14A	0.284	n/a	9/24/2020	0.028J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	9/23/2020	0.63	Yes	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-16	0.284	n/a	9/23/2020	0.049J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-17	0.284	n/a	9/23/2020	0.05J	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	n/a	9/23/2020	0.25	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-8	0.284	n/a	9/22/2020	0.14	No	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	9/23/2020	0.82	Yes	143	n/a	n/a	49.65	n/a	n/a	0.00009629	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-10	7.96	5.09	9/23/2020	6.14	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-11	7.96	5.09	9/24/2020	5.5	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-12	7.96	5.09	9/23/2020	6.42	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-13	7.96	5.09	9/24/2020	6.29	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-14A	7.96	5.09	9/24/2020	5.16	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-15	7.96	5.09	9/23/2020	7.35	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-16	7.96	5.09	9/23/2020	5.05	Yes	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-17	7.96	5.09	9/23/2020	5.89	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-19	7.96	5.09	9/23/2020	6.59	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-8	7.96	5.09	9/22/2020	5.17	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-9	7.96	5.09	9/23/2020	5.8	No	142	n/a	n/a	0	n/a	n/a	0.0001949	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-10	21	n/a	9/23/2020	1.8	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2

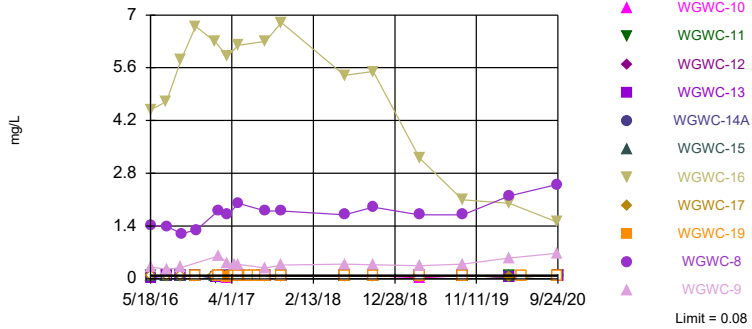
Appendix III - Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:30 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	WGWC-11	21	n/a	9/24/2020	2.7	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-12	21	n/a	9/23/2020	12	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-13	21	n/a	9/24/2020	0.63J	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-14A	21	n/a	9/24/2020	1.2	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-15	21	n/a	9/23/2020	21	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	9/23/2020	85	Yes	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-17	21	n/a	9/23/2020	4.4	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-19	21	n/a	9/23/2020	3	No	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	9/22/2020	200	Yes	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	9/23/2020	54	Yes	119	n/a	n/a	22.69	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-10	190	n/a	9/23/2020	50	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-11	190	n/a	9/24/2020	60	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-12	190	n/a	9/23/2020	90	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-13	190	n/a	9/24/2020	21	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-14A	190	n/a	9/24/2020	24	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-15	190	n/a	9/23/2020	150	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	190	n/a	9/23/2020	250	Yes	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-17	190	n/a	9/23/2020	60	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-19	190	n/a	9/23/2020	94	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	190	n/a	9/22/2020	600	Yes	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-9	190	n/a	9/23/2020	150	No	119	n/a	n/a	8.403	n/a	n/a	0.0001382	NP Inter (normality) 1 of 2

Exceeds Limit: WGWC-16, WGWC-8,
WGWC-9

Prediction Limit
Interwell Non-parametric

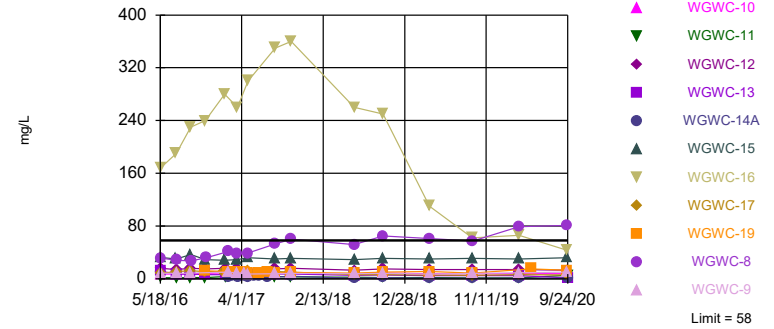


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 119 background values. 99.16% NDs. Annual per-constituent alpha = 0.0008288. Individual comparison alpha = 0.0001382 (1 of 2). Comparing 11 points to limit.

Constituent: Boron Analysis Run 1/6/2021 9:19 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-8

Prediction Limit
Interwell Non-parametric

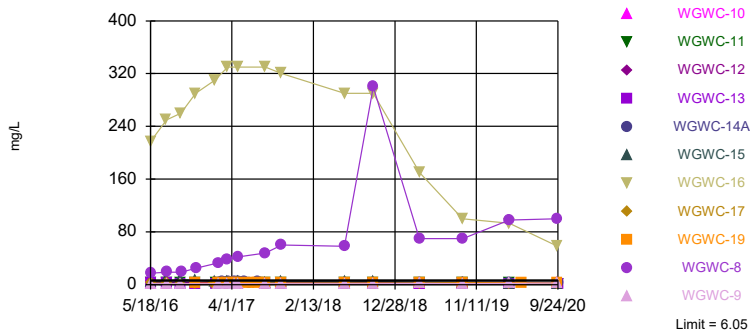


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. Annual per-constituent alpha = 0.0008288. Individual comparison alpha = 0.0001382 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium Analysis Run 1/6/2021 9:19 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit
Interwell Non-parametric

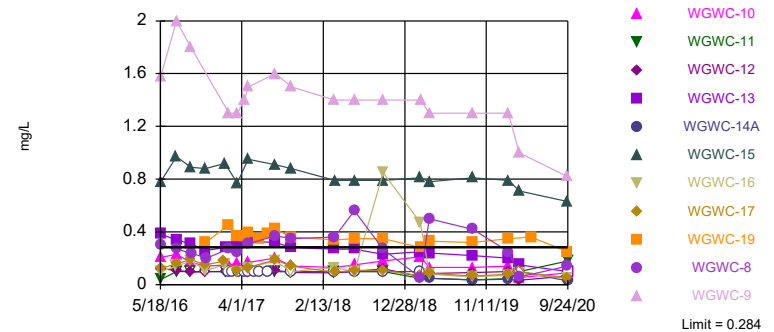


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. Annual per-constituent alpha = 0.0008288. Individual comparison alpha = 0.0001382 (1 of 2). Comparing 11 points to limit.

Constituent: Chloride Analysis Run 1/6/2021 9:19 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-9

Prediction Limit
Interwell Non-parametric

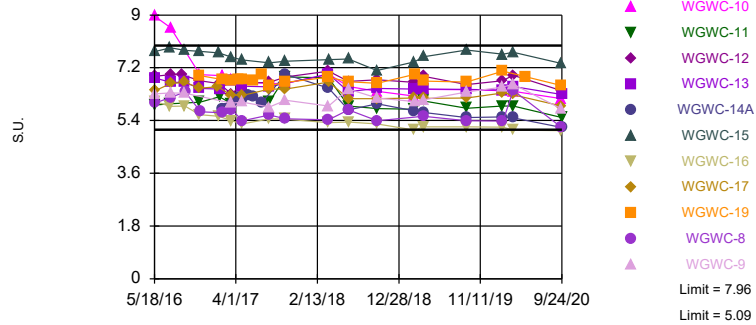


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 143 background values. 49.65% NDs. Annual per-constituent alpha = 0.0005776. Individual comparison alpha = 0.00009629 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 1/6/2021 9:19 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limits: WGWC-16

Prediction Limit
Interwell Non-parametric

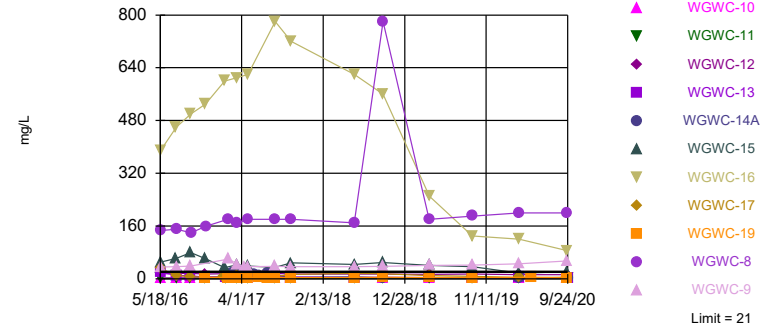


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 142 background values. Annual per-constituent alpha = 0.001169. Individual comparison alpha = 0.0001949 (1 of 2). Comparing 11 points to limit.

Constituent: pH Analysis Run 1/6/2021 9:19 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric

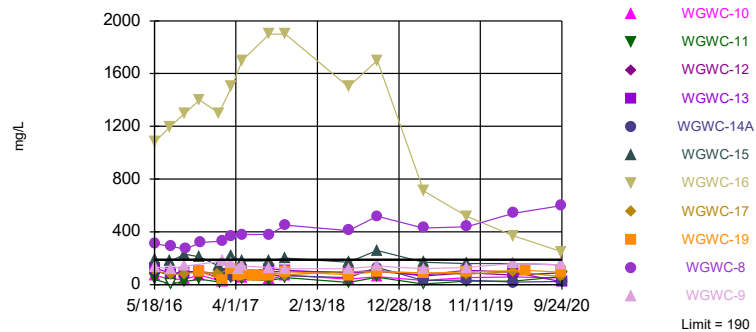


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. 22.69% NDs. Annual per-constituent alpha = 0.0008288. Individual comparison alpha = 0.0001382 (1 of 2). Comparing 11 points to limit.

Constituent: Sulfate Analysis Run 1/6/2021 9:19 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. 8.403% NDs. Annual per-constituent alpha = 0.0008288. Individual comparison alpha = 0.0001382 (1 of 2). Comparing 11 points to limit.

Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:19 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	<0.08	<0.08	<0.08						
5/18/2016				<0.08	<0.08	<0.08	<0.08	4.48	<0.08
5/19/2016									
7/19/2016	<0.08	<0.08	<0.08		<0.08	<0.08	<0.08	4.7	<0.08
7/20/2016				<0.08					
9/13/2016	<0.08	<0.08	<0.08		<0.08		<0.08		
9/14/2016				<0.08		<0.08		5.8	<0.08
9/15/2016									
11/9/2016	<0.08	<0.08	<0.08				<0.08		
11/10/2016					<0.08	<0.08		6.7	
11/11/2016				<0.08					
11/14/2016									
1/17/2017	<0.08	<0.08							
1/18/2017					<0.08		<0.08		
1/19/2017			<0.08						<0.08
1/20/2017									
1/24/2017						<0.08		6.3	
1/27/2017									
2/6/2017				<0.08					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.08	<0.08							
3/14/2017			<0.08		<0.08	<0.08	<0.08		<0.08
3/15/2017				0.032 (J)				5.9	
3/17/2017									
4/11/2017									
4/24/2017	<0.08	<0.08							
4/25/2017			<0.08		<0.08	<0.08	<0.08	6.2	<0.08
4/26/2017				<0.08					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.08	<0.08	<0.08		<0.08		<0.08		
8/9/2017						<0.08		6.3	<0.08
8/10/2017				<0.08					
10/10/2017	<0.08	<0.08							
10/11/2017			<0.08		<0.08	<0.08	<0.08	6.8	<0.08
10/12/2017				<0.08					
6/13/2018	<0.08		<0.08				<0.08		<0.08
6/14/2018		<0.08		<0.08	<0.08	<0.08		5.4	
9/24/2018		<0.08							
9/27/2018	<0.08								
9/28/2018			<0.08						
10/2/2018							<0.08		
10/3/2018					<0.08	<0.08			<0.08
10/4/2018				<0.08				5.5	
4/1/2019	<0.08	<0.08							
4/2/2019			<0.08		<0.08		<0.08		<0.08
4/3/2019									
4/4/2019				0.024 (J)		<0.08		3.2	
9/16/2019	<0.08						<0.08		<0.08

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-9	WGWC-12	WGWC-19
9/17/2019		<0.08							
9/18/2019	<0.08		<0.08		<0.08				<0.08
9/19/2019				<0.08		1.7	0.39	<0.08	
3/16/2020									
3/17/2020		<0.08	<0.08						
3/18/2020	0.049 (J)			<0.08				0.039 (J)	
3/19/2020					0.053 (J)	2.2	0.55		
5/4/2020									<0.08
9/21/2020		<0.08	<0.08						
9/22/2020						2.5			
9/23/2020	<0.08						0.68	<0.08	<0.08
9/24/2020				<0.08	<0.08				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	<0.08
2/9/2017	
2/23/2017	<0.08
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.08
4/11/2017	<0.08
4/24/2017	
4/25/2017	
4/26/2017	<0.08
5/17/2017	<0.08
6/7/2017	<0.08
7/11/2017	<0.08
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.08
10/12/2017	
6/13/2018	
6/14/2018	<0.08
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.08
4/1/2019	
4/2/2019	
4/3/2019	<0.08
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	<0.08
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.039 (J)
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.08

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	0.927	12.2	23.7						
5/18/2016				7.17	1.36	32.5	27	168	1.7
5/19/2016									
7/19/2016	1	13	23		0.88	30	23	190	1.5
7/20/2016				7					
9/13/2016	0.44	13	23		0.93		25		
9/14/2016				7.7		37		230	52
9/15/2016									
11/9/2016	1.1	19	6.7				25		
11/10/2016					6.1	29		240	
11/11/2016				8.2					
11/14/2016									
1/17/2017	1.4	28							
1/18/2017					10		26		
1/19/2017			8.5						13
1/20/2017									
1/24/2017						28		280	
1/27/2017									
2/6/2017				9.1					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	1.1	14							
3/14/2017			13		1.3	29	20		1.6
3/15/2017				9				260	
3/17/2017									
4/11/2017									
4/24/2017	1.1	12							
4/25/2017			23		1.9	32	28	300	1.5
4/26/2017				8.1					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	1.1	18	24		4.8		26		
8/9/2017						30		350	1.3
8/10/2017				8.1					
10/10/2017	1.2	21							
10/11/2017			23		0.93	31	29	360	1.5
10/12/2017				8.6					
6/13/2018	1.1		11				25		1.2
6/14/2018		12		7.7	0.94	29		260	
9/24/2018		11							
9/27/2018	1.2								
9/28/2018			11						
10/2/2018							26		
10/3/2018					1.2	31			1.4
10/4/2018				8.5				250	
4/1/2019	1	12							
4/2/2019			20		1.1		25		1.1
4/3/2019									
4/4/2019				7.9		30		110	
9/16/2019	1.3						25		36

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-9	WGWC-12	WGWC-19
9/17/2019		16							
9/18/2019	5.5		1.6		4.9				8.8
9/19/2019				1.4		57	8.1	14	
3/16/2020									
3/17/2020		15	1.7						
3/18/2020	6.3			1.6				14	
3/19/2020					5	79	9.3		
5/4/2020									15
9/21/2020		16	1.8						
9/22/2020						81			
9/23/2020	5.9						10	13	13
9/24/2020				5.2	1.4				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	3.2
2/9/2017	
2/23/2017	4.1
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	2.4
4/11/2017	4.1
4/24/2017	
4/25/2017	
4/26/2017	2.5
5/17/2017	5.2
6/7/2017	5.2
7/11/2017	2.3
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	3.8
10/12/2017	
6/13/2018	
6/14/2018	1.1
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2
4/1/2019	
4/2/2019	
4/3/2019	0.84
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	0.85
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.89
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.99

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	3.8	2.5	6.05						
5/18/2016				1.45	2.06	4.59	1.58	217	2.14
5/19/2016									
7/19/2016	3.9	2.6	4		2.1	5.9	1.6	250	2.4
7/20/2016				1.6					
9/13/2016	3.6	2.4	3.1		2		1.4		
9/14/2016				1.5		7.9		260	2.1
9/15/2016									
11/9/2016	3.9	2.3	2.3				1.5		
11/10/2016					1.8	6.5		290	
11/11/2016				1.5					
11/14/2016									
1/17/2017	3.8	2.3							
1/18/2017					1.8		1.5		
1/19/2017			2						1.8
1/20/2017									
1/24/2017						4.1		310	
1/27/2017									
2/6/2017				1.4					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	3.4	2.2							
3/14/2017			1.9		1.8	4.4	2.5		2
3/15/2017				1.4				330	
3/17/2017									
4/11/2017									
4/24/2017	3.4	2.2							
4/25/2017			1.9		1.8	4	1.3	330	1.8
4/26/2017				1.3					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	3.6	2.3	2		1.9		1.4		
8/9/2017						3.6		330	1.9
8/10/2017				1.4					
10/10/2017	3.6	2.5							
10/11/2017			1.9		1.8	5	1.3	320	2.1
10/12/2017				1.3					
6/13/2018	3.8		2				1.4		1.7
6/14/2018		2.3		1.3	1.7	4.3		290	
9/24/2018		2.4							
9/27/2018	4								
9/28/2018			2.1						
10/2/2018							1.4		
10/3/2018					1.8	4.8			1.8
10/4/2018				1.3				290	
4/1/2019	4	2.4							
4/2/2019			2.6		1.9		1.5		1.7
4/3/2019									
4/4/2019				1.4		3.7		170	
9/16/2019	4						1.5		1.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-9	WGWC-12	WGWC-19
9/17/2019		1.2							
9/18/2019	1.5		1.7		1.2				2.7
9/19/2019				3.2		70	1.5	3.2	
3/16/2020									
3/17/2020		1.4	1.8						
3/18/2020	1.5			3.2				3.2	
3/19/2020					1.3	98	2.1		
5/4/2020									2.8
9/21/2020		1.2	1.5						
9/22/2020						100			
9/23/2020	1.2						2.4	2.8	2.6
9/24/2020				1	1.6				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	2.5
2/9/2017	
2/23/2017	4.3
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	4.8
4/11/2017	3.8
4/24/2017	
4/25/2017	
4/26/2017	4.8
5/17/2017	3.9
6/7/2017	3.2
7/11/2017	4.1
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	2.2
10/12/2017	
6/13/2018	
6/14/2018	2.8
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2.2
4/1/2019	
4/2/2019	
4/3/2019	2.4
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	2.2
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	1.9
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	3.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-16	WGWA-7 (bg)	WGWC-15	WGWC-10	WGWC-17	WGWA-5 (bg)
5/17/2016	0.0131 (J)	0.284 (J)	0.0538 (J)						
5/18/2016				0.1 (J)	0.018 (J)	0.779	0.206	0.121 (J)	0.014 (J)
5/19/2016									
7/19/2016	<0.1	0.21	<0.1	0.14 (J)	<0.1	0.97			<0.1
7/20/2016							0.23	0.16 (J)	
9/13/2016	<0.1	0.15 (J)	<0.1		<0.1				
9/14/2016				0.18 (J)		0.89	0.17 (J)	0.19 (J)	0.095 (J)
9/15/2016									
11/9/2016	<0.1	<0.1	0.085 (J)						
11/10/2016				0.11 (J)	<0.1	0.88		0.15 (J)	
11/11/2016							0.14 (J)		
11/14/2016									
1/17/2017	<0.1		<0.1						
1/18/2017					<0.1				
1/19/2017		0.087 (J)							<0.1
1/20/2017								0.18 (J)	
1/24/2017				0.15 (J)		0.92			
1/27/2017									
2/6/2017							0.15 (J)		
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.1		<0.1						
3/14/2017		<0.1			<0.1	0.77		0.11 (J)	<0.1
3/15/2017				0.1 (J)			0.16 (J)		
3/17/2017									
4/11/2017									
4/24/2017	<0.1		<0.1						
4/25/2017		<0.1		0.13 (J)	<0.1	0.95		0.13 (J)	<0.1
4/26/2017							0.17 (J)		
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.1	0.087 (J)	<0.1		<0.1				
8/9/2017				0.18 (J)		0.91		0.19 (J)	<0.1
8/10/2017							0.2		
10/10/2017	<0.1		0.18 (J)						
10/11/2017		0.09 (J)		<0.1	<0.1	0.88		0.14 (J)	<0.1
10/12/2017							0.14 (J)		
3/27/2018	<0.1		<0.1						
3/28/2018		0.11 (J)			<0.1				<0.1
3/29/2018				0.13 (J)					
3/30/2018						0.79	0.13 (J)	0.095 (J)	
6/13/2018	<0.1	0.085 (J)							<0.1
6/14/2018			<0.1	<0.1	<0.1	0.79	0.15 (J)	0.11 (J)	
9/24/2018			<0.1						
9/27/2018	<0.1								
9/28/2018		0.082 (J)							
10/2/2018									
10/3/2018					<0.1	0.79			<0.1
10/4/2018				0.85 (J)			0.18 (J)	0.11 (J)	
2/25/2019	<0.1		0.032 (J)						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-9	WGWC-11	WGWC-13	WGWC-12	WGWC-8	WGWC-19
2/26/2019	0.074 (J)	0.14 (J)	<0.1						
2/27/2019					0.047 (J)	0.25	0.06 (J)	0.054 (J)	
2/28/2019				1.4					0.28
4/1/2019									
4/2/2019	0.09 (J)	0.14 (J)	0.039 (J)						0.33
4/3/2019				1.3	0.048 (J)	0.24	0.084 (J)	0.5	
4/4/2019									
9/16/2019	0.1 (J)								
9/17/2019		0.14 (J)							
9/18/2019			0.033 (J)			0.22			0.32
9/19/2019				1.3	0.037 (J)		0.093 (J)	0.42	
2/3/2020									
2/4/2020	0.13	0.13	0.031 (J)						
2/5/2020				1.3	0.045 (J)	0.2	0.098 (J)		
2/7/2020								0.25	0.35
3/16/2020									
3/17/2020	0.037 (J)	0.11	0.04 (J)						
3/18/2020					<0.1		0.033 (J)		
3/19/2020				1		0.15		0.057 (J)	
5/4/2020									0.36
9/21/2020		0.091 (J)	<0.1						
9/22/2020	0.068 (J)							0.14	
9/23/2020				0.82			0.064 (J)		0.25
9/24/2020					0.18	<0.1			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	<0.1
2/9/2017	
2/23/2017	<0.1
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.1
4/11/2017	<0.1
4/24/2017	
4/25/2017	
4/26/2017	<0.1
5/17/2017	<0.1
6/7/2017	<0.1
7/11/2017	<0.1
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.1
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	<0.1
3/30/2018	
6/13/2018	
6/14/2018	<0.1
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.1
2/25/2019	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

2/26/2019	
2/27/2019	<0.1
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	0.048 (J)
4/4/2019	
9/16/2019	
9/17/2019	
9/18/2019	0.035 (J)
9/19/2019	
2/3/2020	
2/4/2020	
2/5/2020	0.04 (J)
2/7/2020	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.1
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.028 (J)

Prediction Limit

Constituent: pH (S.U.) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWC-17
5/17/2016	5.24	6.23	7.81						
5/18/2016				8.96	5.5	7.75	7.92	6.06	6.41
5/19/2016									
7/18/2016	5.434038							5.884339	
7/19/2016		6.285413			5.43	7.876073	7.154587		
7/20/2016				8.56774					6.662463
9/1/2016									
9/13/2016	5.22	6.3	7.18		5.57		7.96		
9/14/2016						7.79		5.89	6.7
9/15/2016									
11/9/2016	5.57	6.26	6.03				7.27		
11/10/2016					6.93	7.76		5.6	6.51
11/11/2016				6.96					
11/14/2016									
1/17/2017	5.48	6.8							
1/18/2017					7.16		7.72		
1/19/2017			6.71						
1/20/2017									6.55
1/24/2017						7.71		5.54	
1/27/2017									
2/6/2017				6.93					
2/8/2017									
2/23/2017									
3/13/2017	5.4	6.18							
3/14/2017			6.45		5.82	7.57			6.27
3/15/2017				6.82				5.39	
3/17/2017									
4/11/2017									
4/24/2017	5.4	6.35							
4/25/2017			6.93		5.57	7.47	7.73	5.28	6.26
4/26/2017				6.73					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	5.32	6.23	6.72		5.6		7.74		
8/9/2017						7.37		5.46	6.47
8/10/2017				6.66					
8/25/2017									
10/10/2017	5.26	6.32							
10/11/2017			6.75		5.43	7.42	7.71	5.45	6.47
10/12/2017				6.67					
3/27/2018	5.39	6.14							
3/28/2018			6.84		5.29		7.28		
3/29/2018								5.33	
3/30/2018				6.98		7.48			6.71
6/13/2018	5.33		6.31				7.78		
6/14/2018		6.02		6.56	5.39	7.5		5.35	6.15
9/24/2018		6.1							
9/27/2018	5.33								
9/28/2018			6.26						
10/2/2018							7.52		
10/3/2018					5.33	7.11			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWA-5 (bg)	WGWC-11	WGWC-8	WGWC-9	WGWC-13	WGWC-12	WGWC-19
5/17/2016									
5/18/2016	7.23	5.55	5.47						
5/19/2016				5.93	5.99	6.31	6.85	6.91	
7/18/2016				5.9661					
7/19/2016			5.336672						
7/20/2016	7.281557	5.656628			6.194334	6.345061	6.705264	6.962608	
9/1/2016								6.96	
9/13/2016	7.15	5.63							
9/14/2016			7.29			6.33	6.7		
9/15/2016					6.38				
11/9/2016									
11/10/2016	6.33	5.61					6.5		
11/11/2016				6.03				6.76	6.93
11/14/2016					5.7				
1/17/2017									
1/18/2017	6.94	5.81							
1/19/2017			6.59						
1/20/2017									
1/24/2017									
1/27/2017				6.21			6.47	6.66	
2/6/2017					5.66				6.8
2/8/2017									
2/23/2017									
3/13/2017									
3/14/2017	6.75	5.53	5.86						
3/15/2017				5.97	5.77	5.99	6.75	6.3	6.78
3/17/2017									
4/11/2017									6.79
4/24/2017									
4/25/2017	6.84	5.59	5.35						
4/26/2017				6.17	5.39	6.03	6.57	6.67	6.82
5/17/2017									
6/7/2017									6.76
7/11/2017									6.99
8/8/2017		5.52							
8/9/2017	6.67		5.25				6.55		
8/10/2017				6.05	5.59	5.86		6.7	6.59
8/25/2017			5.44						
10/10/2017									
10/11/2017	6.75	5.51	6.99						
10/12/2017				6.89	5.46	6.09	6.67	6.89	6.7
3/27/2018									
3/28/2018	6.79	5.6	5.95						
3/29/2018				6.85	5.43	5.89	6.99	7.08	6.88
3/30/2018									
6/13/2018			5.13						
6/14/2018	6.67	5.58		5.89	5.76	6.47	6.39	6.73	6.72
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	6.92	5.45	5.22						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWA-5 (bg)	WGWC-11	WGWC-8	WGWC-9	WGWC-13	WGWC-12	WGWC-19
10/4/2018				5.81	5.39	6.17	6.5	6.79	6.67
2/25/2019									
2/26/2019	6.74	5.6	5.21						
2/27/2019				5.78			6.47	6.7	
2/28/2019						6.045 (D)			6.98
4/1/2019									
4/2/2019	6.81	5.69	5.25						6.75
4/3/2019				6.07	5.55	6.1	6.47	6.91	
4/4/2019									
9/16/2019			6.94						
9/17/2019	6.93								
9/18/2019		5.62					6.46		6.71
9/19/2019				5.82	5.39	6.38		6.63	
2/3/2020									
2/4/2020	7.29	5.66	5.31						
2/5/2020				5.89		6.54	6.44	6.76	
2/7/2020					5.38				7.08
3/16/2020									
3/17/2020	6.83	5.61	5.34						
3/18/2020				5.89				6.94	
3/19/2020					6.43	6.64	6.56		
5/4/2020									6.9
9/21/2020	6.81	5.35							
9/22/2020			6.78		5.17				
9/23/2020						5.8		6.42	6.59
9/24/2020				5.5			6.29		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/18/2016	
7/19/2016	
7/20/2016	
9/1/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	5.81
2/23/2017	5.8
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	5.97
4/11/2017	6.18
4/24/2017	
4/25/2017	
4/26/2017	6.09
5/17/2017	6.26
6/7/2017	6.21
7/11/2017	6
8/8/2017	
8/9/2017	
8/10/2017	
8/25/2017	
10/10/2017	
10/11/2017	6.97
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	6.51
3/30/2018	
6/13/2018	
6/14/2018	5.76
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A
10/4/2018	5.97
2/25/2019	
2/26/2019	
2/27/2019	5.73
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	5.68
4/4/2019	
9/16/2019	
9/17/2019	
9/18/2019	5.5
9/19/2019	
2/3/2020	
2/4/2020	
2/5/2020	5.52
2/7/2020	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	5.49
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	5.16

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	<1	1.14	19.9						
5/18/2016				2.84	0.368 (J)	50.7	8.88	388	0.955 (J)
5/19/2016									
7/19/2016	<1	1.4	14		<1	62	9	460	0.76 (J)
7/20/2016				2.8					
9/13/2016	<1	1.1	11		<1		8.5		
9/14/2016				2.8		79		500	3.4
9/15/2016									
11/9/2016	<1	1.1	6.3				8.2		
11/10/2016					<1	61		530	
11/11/2016				2.6					
11/14/2016									
1/17/2017	<1	2.1							
1/18/2017					1.4		9.4		
1/19/2017			7.4						21
1/20/2017									
1/24/2017						34		600	
1/27/2017									
2/6/2017				2.7					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<1	0.97 (J)							
3/14/2017			10		<1	43	2		1.4
3/15/2017				2.7				610	
3/17/2017									
4/11/2017									
4/24/2017	<1	0.75 (J)							
4/25/2017			10		<1	39	8.2	620	0.89 (J)
4/26/2017				2.5					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<1	1.1	12		<1		8.5		
8/9/2017						35		780	0.75 (J)
8/10/2017				2.2					
10/10/2017	<1	1.3							
10/11/2017			11		<1	48	8.3	720	<1
10/12/2017				1.9					
6/13/2018	<1		8.2				8.3		<1
6/14/2018		0.84 (J)		2	<1	44		620	
9/24/2018		0.79 (J)							
9/27/2018	<1								
9/28/2018			7.6						
10/2/2018							8.3		
10/3/2018					<1	49			<1
10/4/2018				1.9				560	
4/1/2019	<1	1							
4/2/2019			11		0.4 (J)		8.5		0.94 (J)
4/3/2019									
4/4/2019				2.2		41		250	
9/16/2019	0.49 (J)						8.9		2.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-9	WGWC-12	WGWC-19
9/17/2019		8.1							
9/18/2019	7.3		0.78 (J)		3.9				3.6
9/19/2019				1.3		190	42	14	
3/16/2020									
3/17/2020		12	1.2						
3/18/2020	4.2			1.6				12	
3/19/2020					4	200	45		
5/4/2020									4.5
9/21/2020		7.7	0.77 (J)						
9/22/2020						200			
9/23/2020	4.4						54	12	3
9/24/2020				2.7	0.63 (J)				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	4.3
2/9/2017	
2/23/2017	16
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	22
4/11/2017	13
4/24/2017	
4/25/2017	
4/26/2017	20
5/17/2017	12
6/7/2017	8.1
7/11/2017	17
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	3.4
10/12/2017	
6/13/2018	
6/14/2018	5.8
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2.8
4/1/2019	
4/2/2019	
4/3/2019	3.8
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	1.7
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	1.5
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	1.2

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	<10	100	112						
5/18/2016				70	31	190	113	1080	33
5/19/2016									
7/19/2016	14	84	80		<10	180	92	1200	<10
7/20/2016				42					
9/13/2016	50	70	120		<10		100		
9/14/2016				40		230		1300	150
9/15/2016									
11/9/2016	22	110	76				130		
11/10/2016					44	210		1400	
11/11/2016				72					
11/14/2016									
1/17/2017	8	120							
1/18/2017					50		120		
1/19/2017			36						34
1/20/2017									
1/24/2017						140		1300	
1/27/2017									
2/6/2017				24					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<10	58							
3/14/2017			70		26	220	110		32
3/15/2017				78				1500	
3/17/2017									
4/11/2017									
4/24/2017	10	94							
4/25/2017			70		10	180	100	1700	22
4/26/2017				48					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<10	62	72		<10		90		
8/9/2017						180		1900	20
8/10/2017				38					
10/10/2017	44	140							
10/11/2017			90		42	200	98	1900	4 (J)
10/12/2017				72					
6/13/2018	24		38				110		<10
6/14/2018		80		40	14	170		1500	
9/24/2018		76							
9/27/2018	28								
9/28/2018			68						
10/2/2018							130		
10/3/2018					6	260			24
10/4/2018				60				1700	
4/1/2019	<10	63							
4/2/2019			100		15		110		25
4/3/2019									
4/4/2019				30		170		710	
9/16/2019	27						110		41

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-9	WGWC-12	WGWC-19
9/17/2019		120							
9/18/2019	79		36		110				96
9/19/2019				27		440	130	89	
3/16/2020									
3/17/2020		100	20						
3/18/2020	98			26				73	
3/19/2020					95	540	160		
5/4/2020									110
9/21/2020		92	22						
9/22/2020						600			
9/23/2020	60						150	90	94
9/24/2020				60	21				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	54
2/9/2017	
2/23/2017	78
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	56
4/11/2017	76
4/24/2017	
4/25/2017	
4/26/2017	76
5/17/2017	68
6/7/2017	72
7/11/2017	68
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	68
10/12/2017	
6/13/2018	
6/14/2018	52
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	130
4/1/2019	
4/2/2019	
4/3/2019	31
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/6/2021 9:30 AM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	33
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	18
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	24

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:35 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	WGWC-8	12.48	83	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-5 (bg)	-0.1417	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	20.51	93	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.1083	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-2 (bg)	-0.06212	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWC-16	-0.1634	-128	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-4 (bg)	0.8303	68	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	12.63	71	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	67.41	88	53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:35 AM

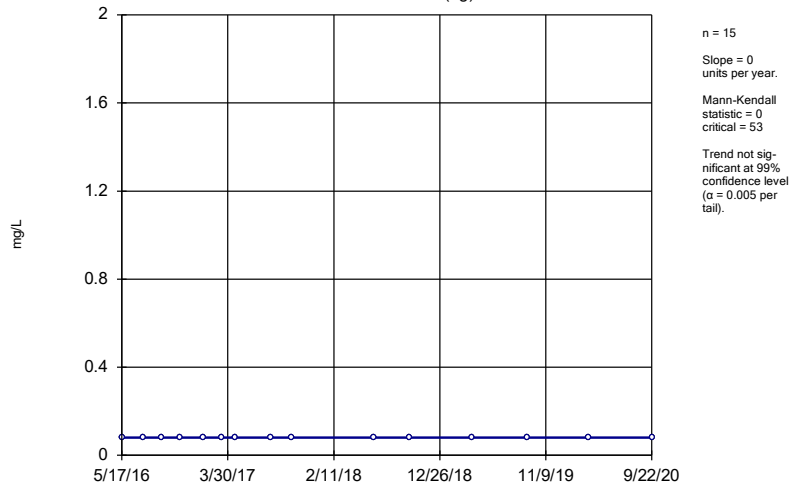
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	WGWA-1 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-18 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-2 (bg)	0	-12	-53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-3 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-4 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-5 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-6 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-7 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-16	-0.7036	-36	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-8	0.193	50	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-9	0.03698	37	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-1 (bg)	0.0517	38	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-18 (bg)	-0.9964	-25	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-2 (bg)	-0.5093	-24	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-3 (bg)	0	3	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-4 (bg)	0	-20	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-5 (bg)	-0.1022	-19	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-6 (bg)	0	2	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-7 (bg)	-0.09047	-22	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-8	12.48	83	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-1 (bg)	0.08459	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-18 (bg)	-0.1377	-20	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-2 (bg)	0	15	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-3 (bg)	0	-25	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-4 (bg)	-0.0272	-45	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-5 (bg)	-0.1417	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-6 (bg)	0	-10	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-7 (bg)	0	-10	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-16	-32.02	-27	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	20.51	93	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-1 (bg)	0	-16	-68	No	18	77.78	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-18 (bg)	-0.007356	-35	-68	No	18	22.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-2 (bg)	-0.01003	-54	-68	No	18	50	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-3 (bg)	0	-27	-68	No	18	72.22	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-4 (bg)	-0.00869	-63	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-5 (bg)	0	29	63	No	17	88.24	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-6 (bg)	-0.008941	-57	-68	No	18	11.11	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-7 (bg)	0	-18	-68	No	18	77.78	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-15	-0.04873	-67	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.1083	-86	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-1 (bg)	-0.04386	-45	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-18 (bg)	-0.04192	-5	-63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-2 (bg)	-0.06212	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-3 (bg)	-0.01158	-13	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-4 (bg)	-0.007256	-10	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-5 (bg)	-0.03392	-20	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-6 (bg)	0.02612	16	63	No	17	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWA-7 (bg)	-0.05214	-38	-68	No	18	0	n/a	n/a	0.01	NP
pH (S.U.)	WGWC-16	-0.1634	-128	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-1 (bg)	0	-23	-53	No	15	86.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-18 (bg)	-0.8343	-25	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-2 (bg)	-0.02732	-12	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-3 (bg)	0.01035	7	53	No	15	6.667	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-4 (bg)	0.8303	68	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-5 (bg)	0.07633	16	48	No	14	21.43	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:35 AM

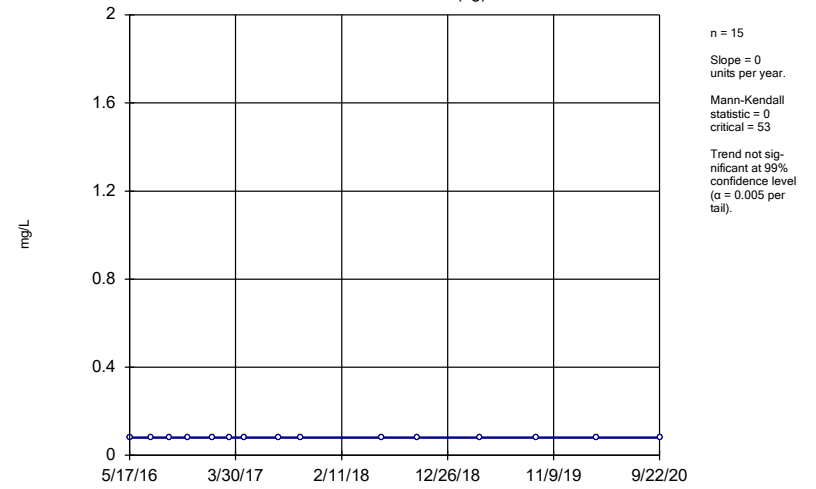
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	WGWA-6 (bg)	0	-2	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-7 (bg)	0	-22	-53	No	15	66.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-16	-67.59	-14	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	12.63	71	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-9	1.711	42	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-1 (bg)	1.921	16	53	No	15	26.67	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-18 (bg)	0	-1	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-2 (bg)	0.6073	3	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-3 (bg)	2.485	17	53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-4 (bg)	1.172	15	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-5 (bg)	0	0	48	No	14	14.29	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-6 (bg)	3.921	22	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-7 (bg)	0	3	53	No	15	20	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-16	-175.9	-11	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	67.41	88	53	Yes	15	0	n/a	n/a	0.01	NP

Sen's Slope Estimator WGWA-1 (bg)



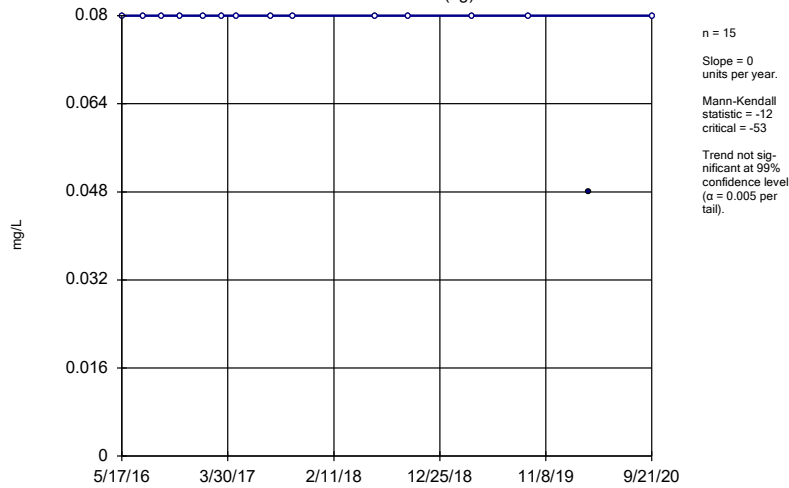
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-18 (bg)



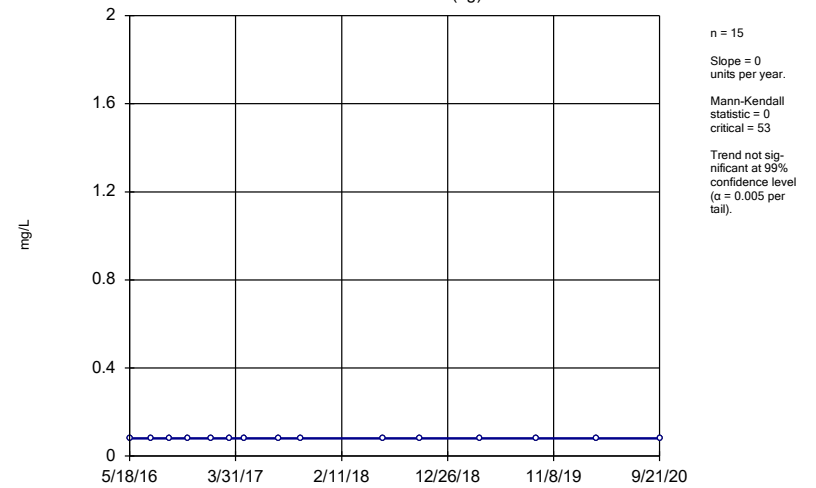
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-2 (bg)



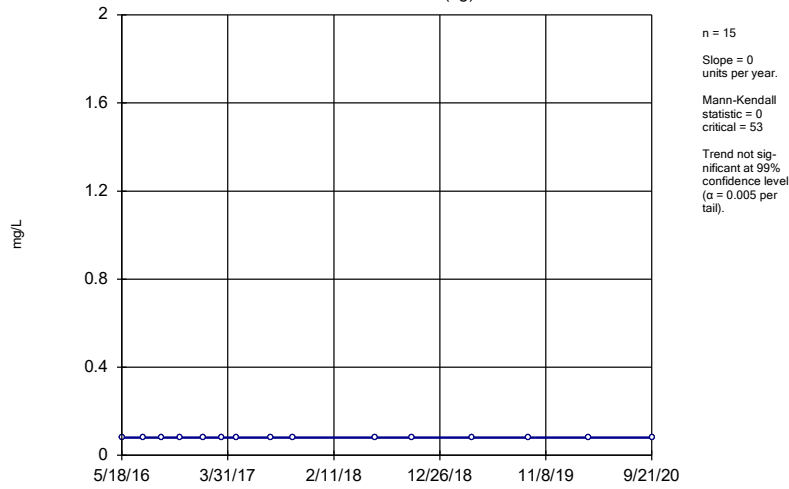
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-3 (bg)



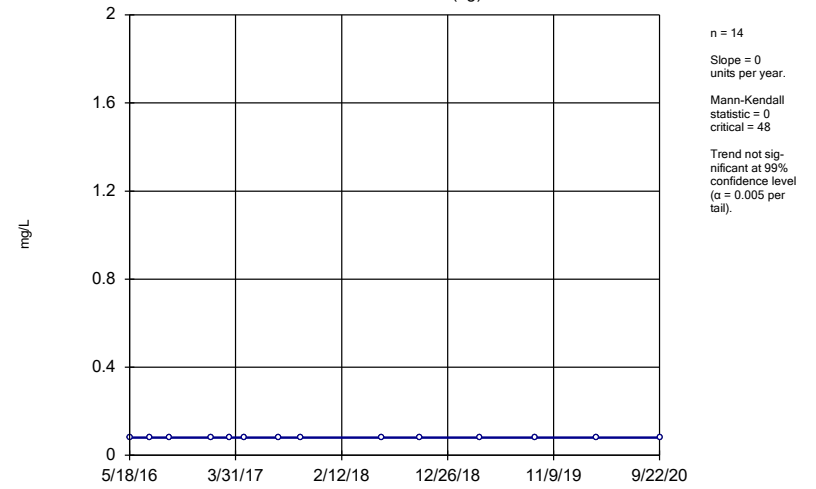
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-4 (bg)



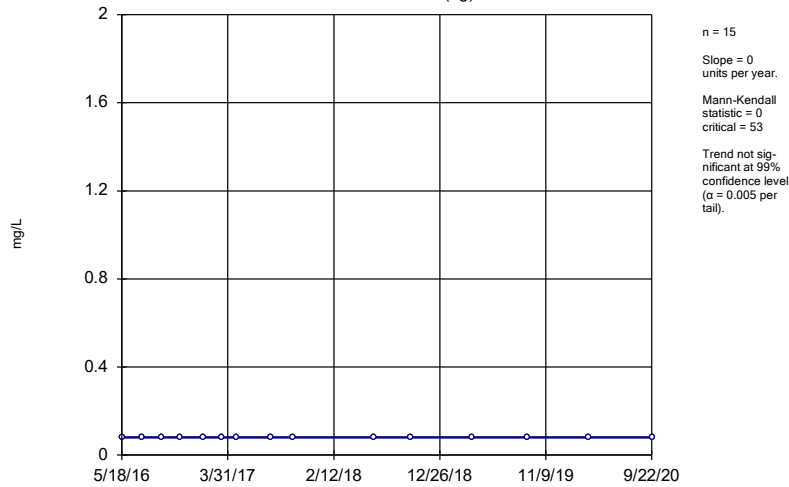
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-5 (bg)



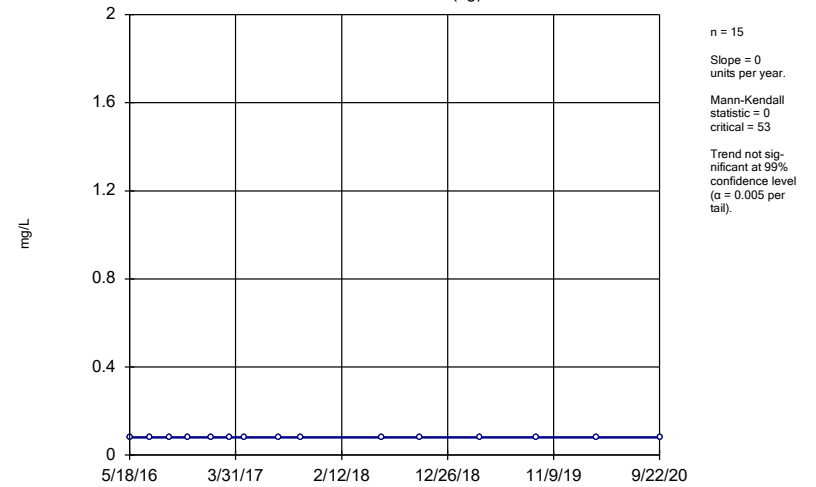
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-6 (bg)



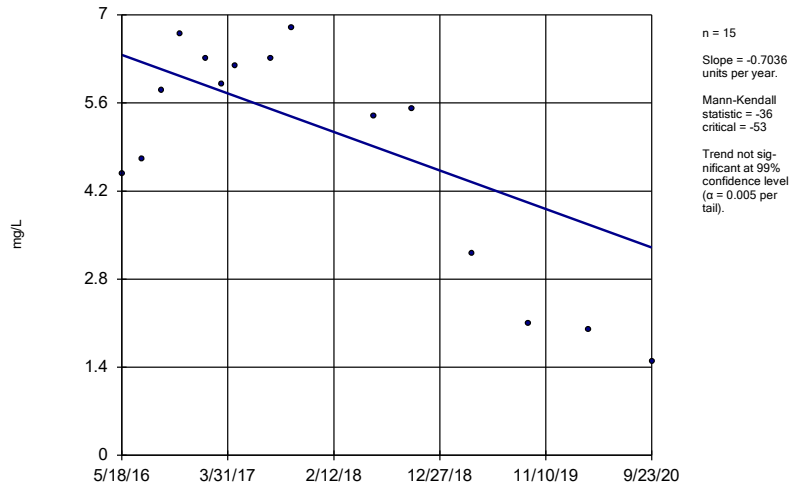
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-7 (bg)



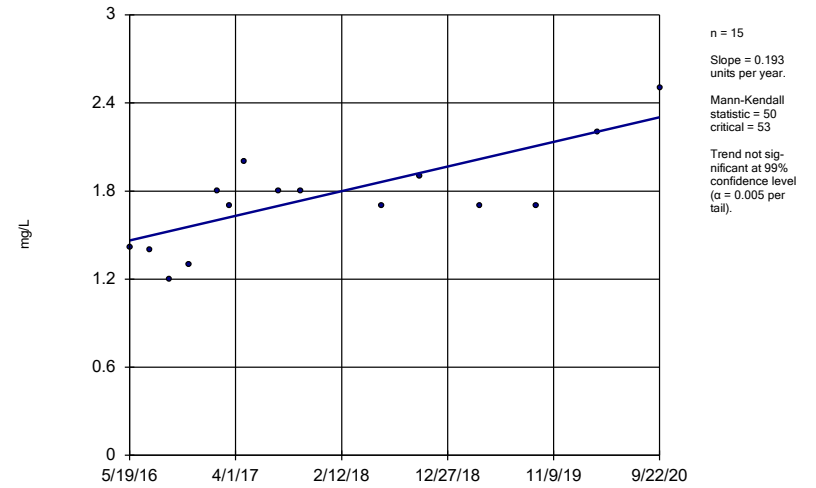
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-16



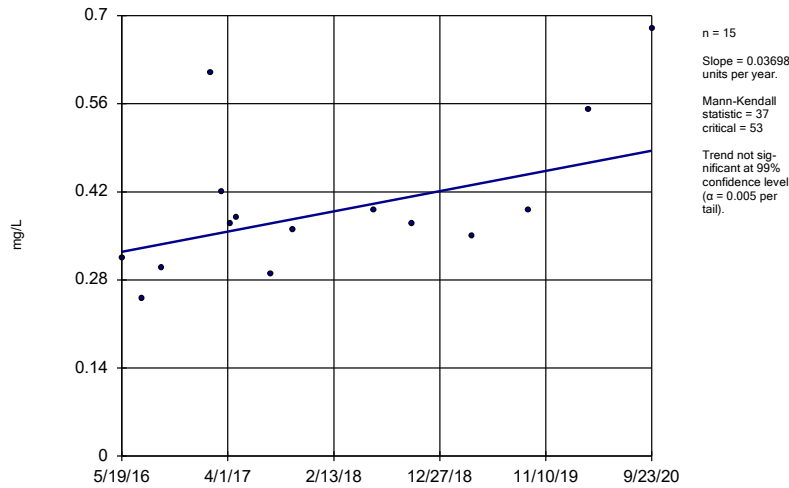
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-8



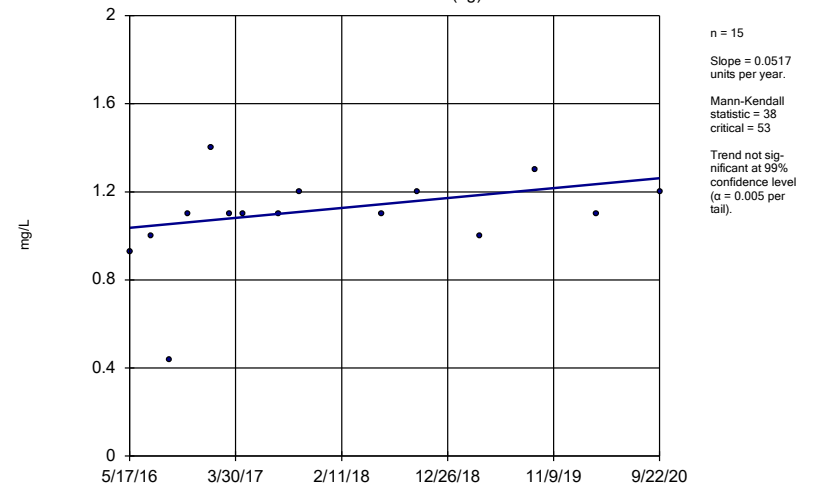
Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-9



Constituent: Boron Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

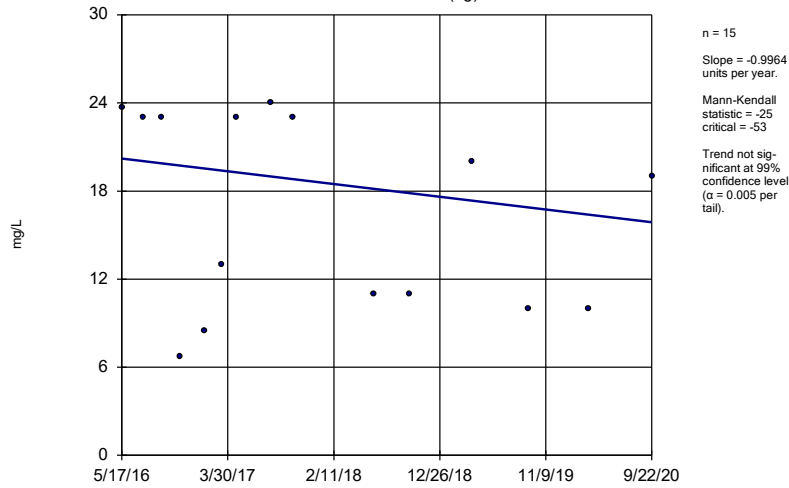
Sen's Slope Estimator
WGWA-1 (bg)



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

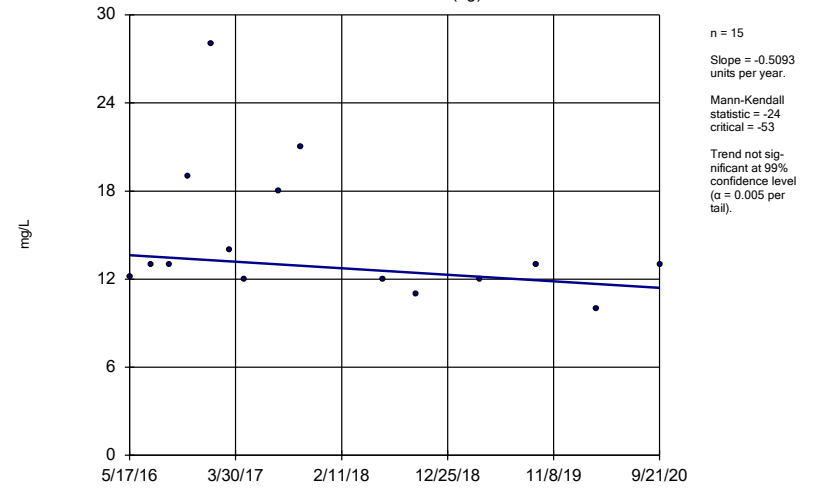
WGWA-18 (bg)



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

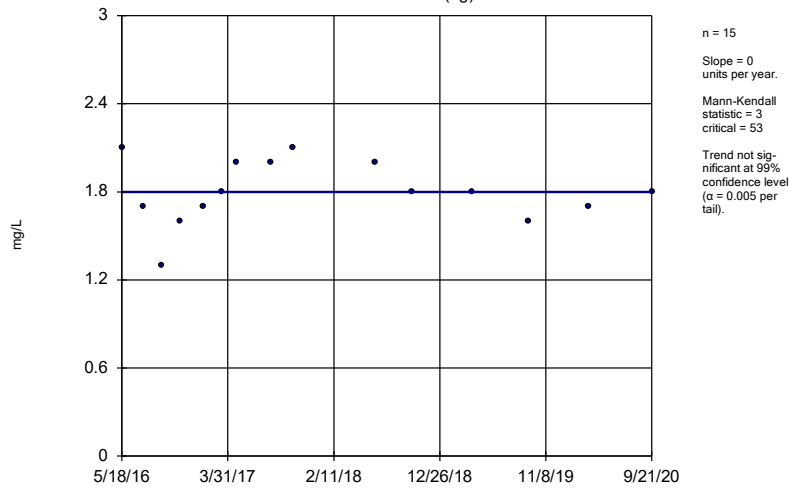
WGWA-2 (bg)



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

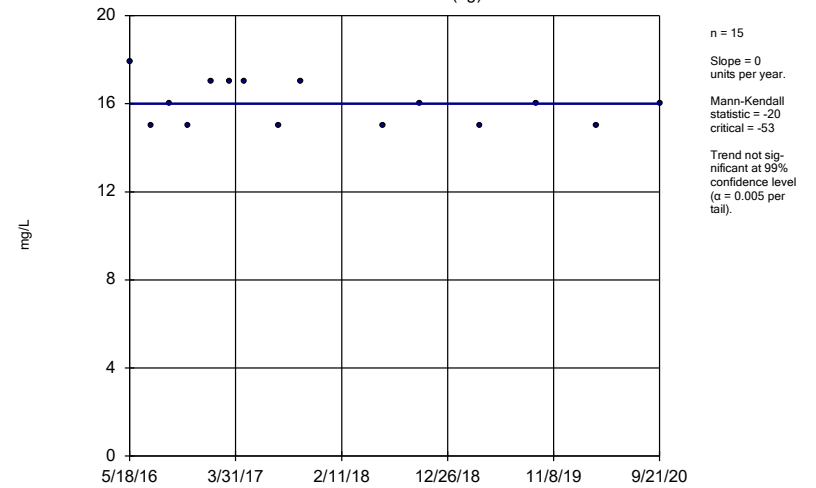
WGWA-3 (bg)



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

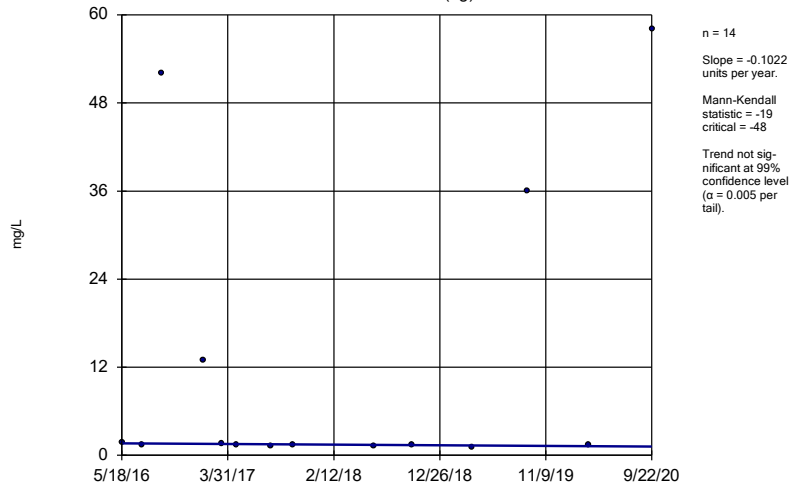
WGWA-4 (bg)



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

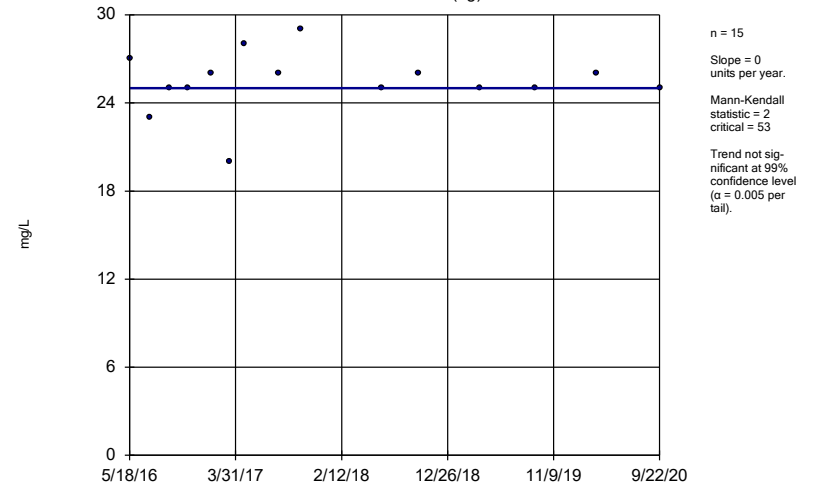
WGWA-5 (bg)



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

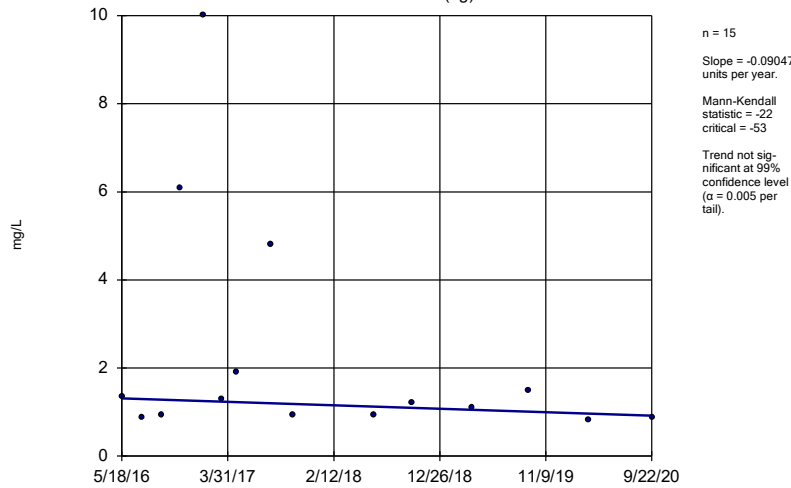
WGWA-6 (bg)



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

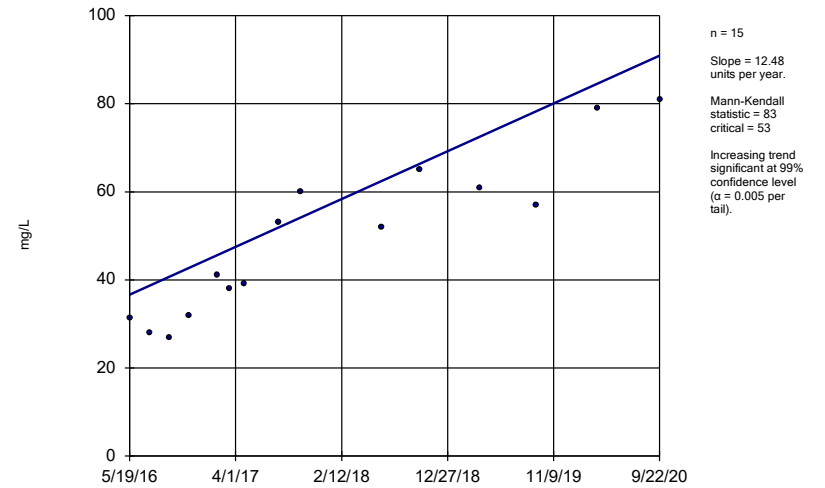
WGWA-7 (bg)



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

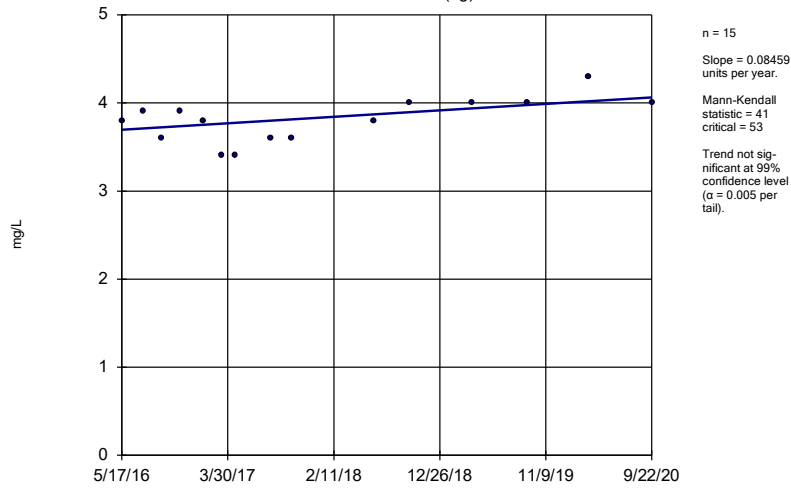
WGWC-8



Constituent: Calcium Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

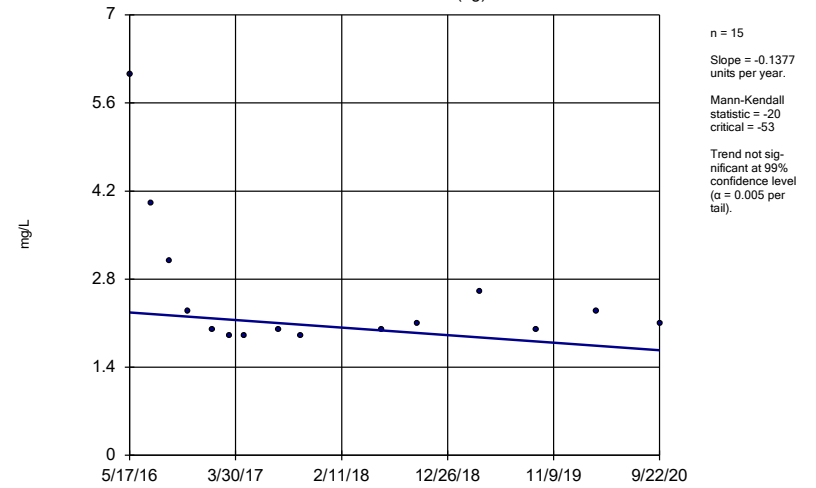
WGWA-1 (bg)



Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

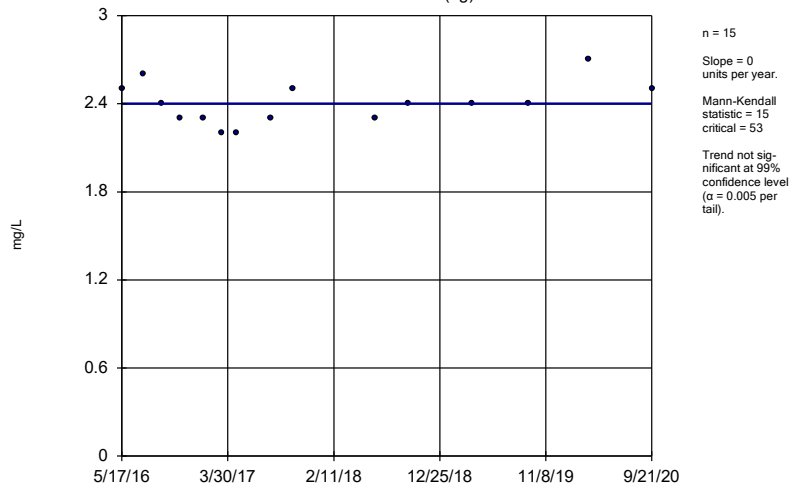
WGWA-18 (bg)



Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

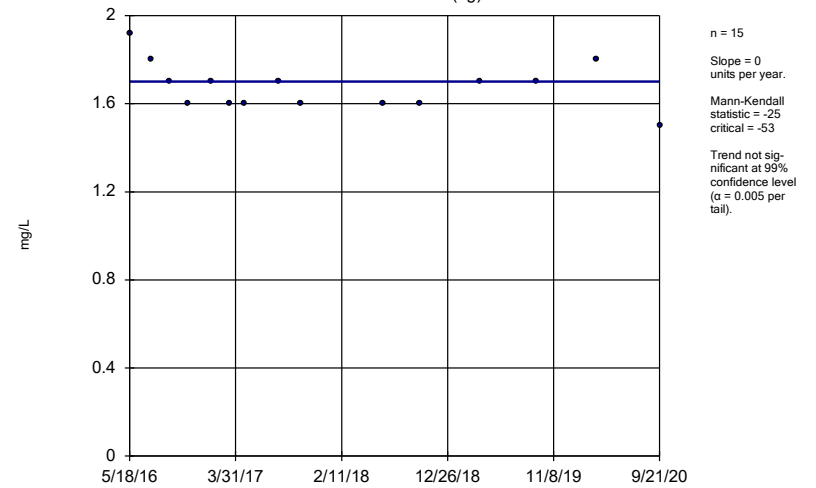
WGWA-2 (bg)



Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

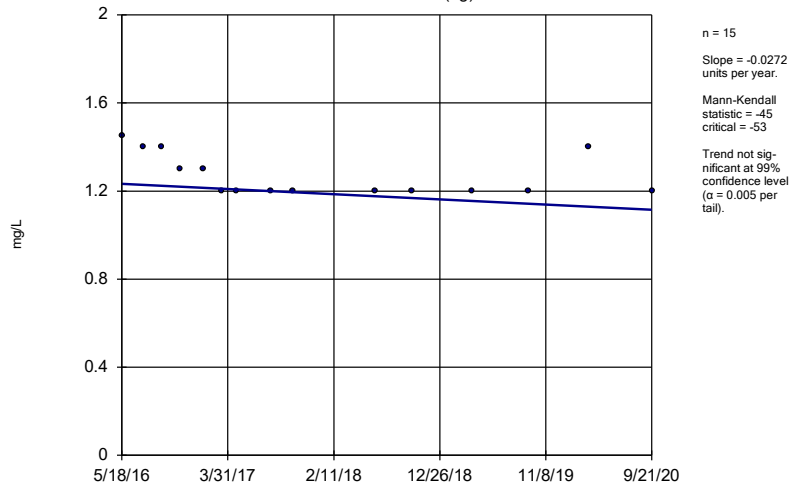
Sen's Slope Estimator

WGWA-3 (bg)



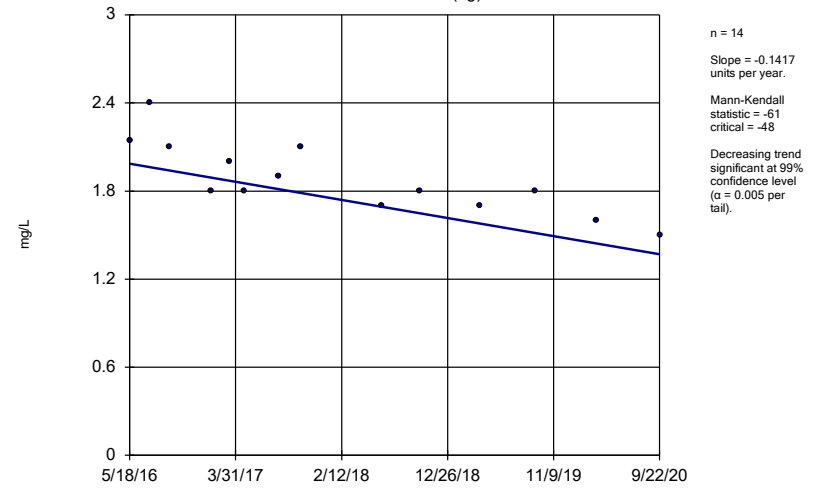
Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-4 (bg)



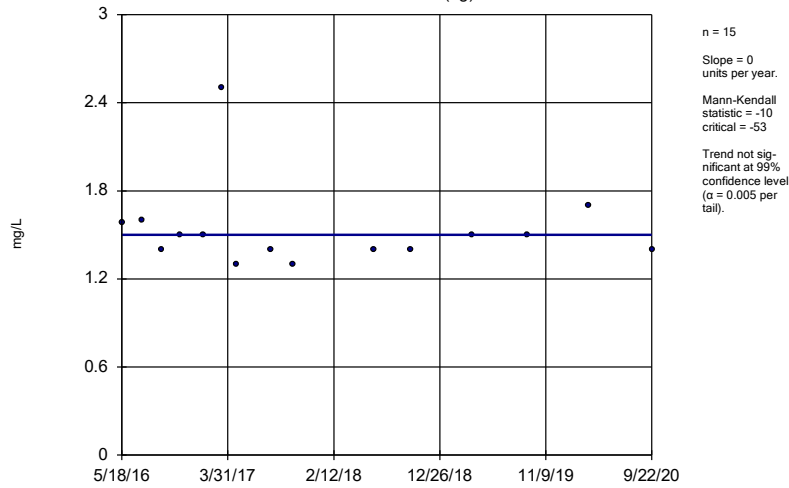
Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-5 (bg)



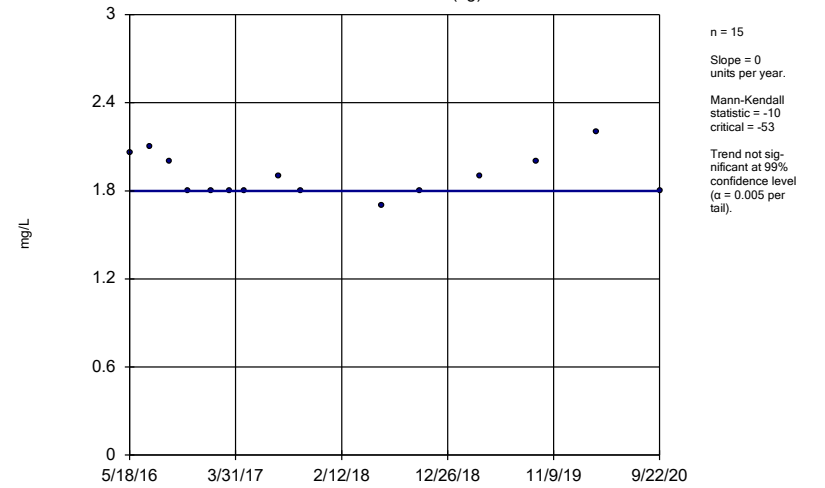
Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-6 (bg)



Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

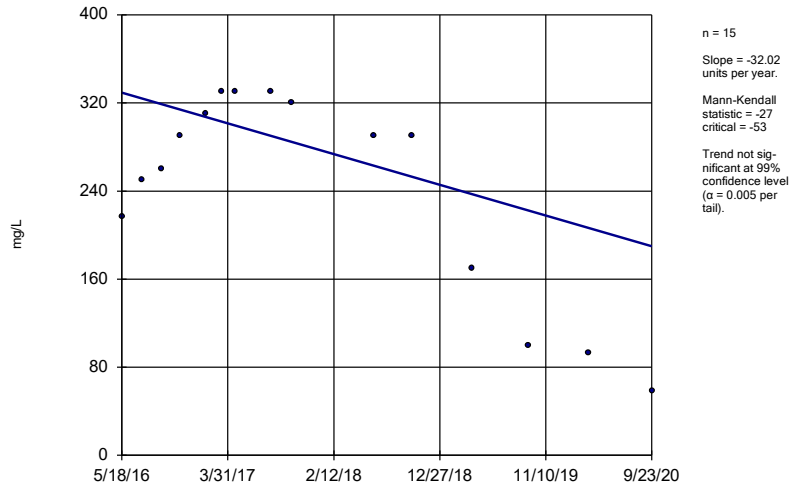
Sen's Slope Estimator
WGWA-7 (bg)



Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

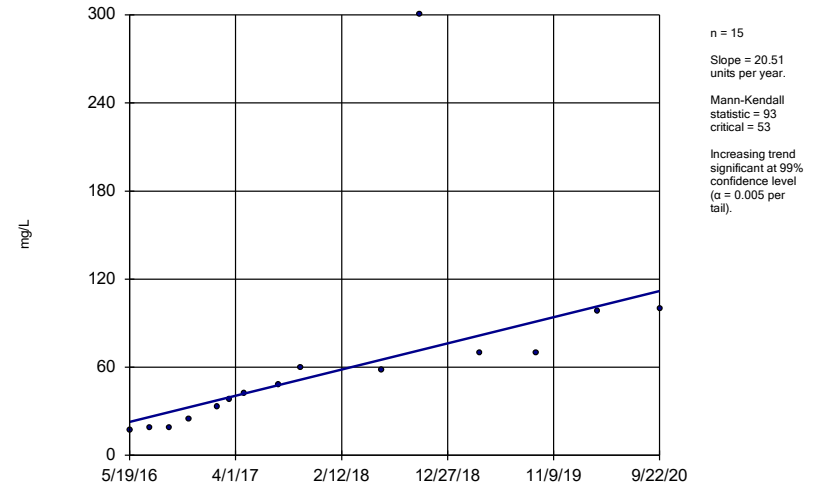
WGWC-16



Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

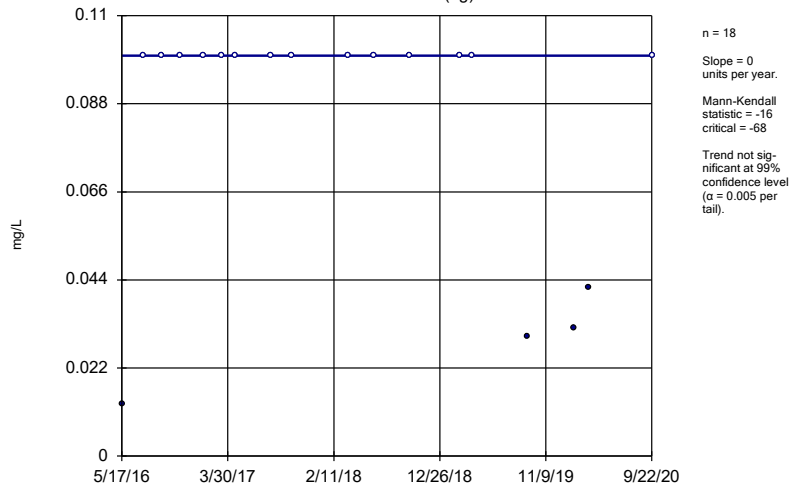
WGWC-8



Constituent: Chloride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

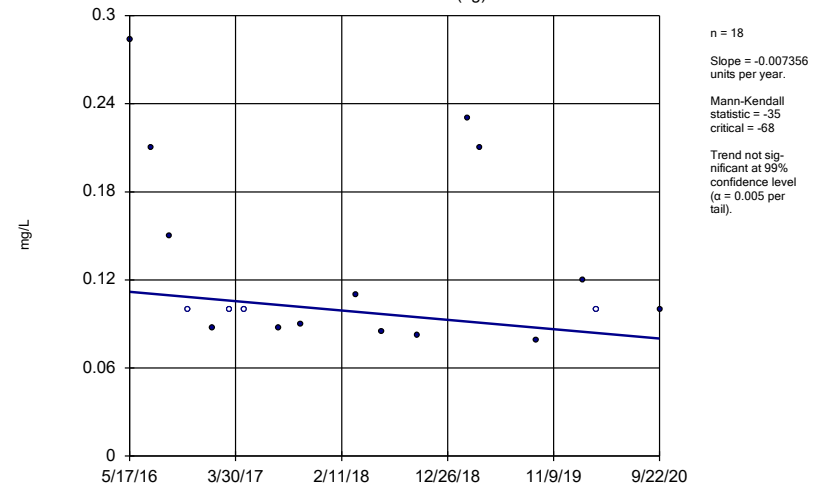
WGWA-1 (bg)



Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

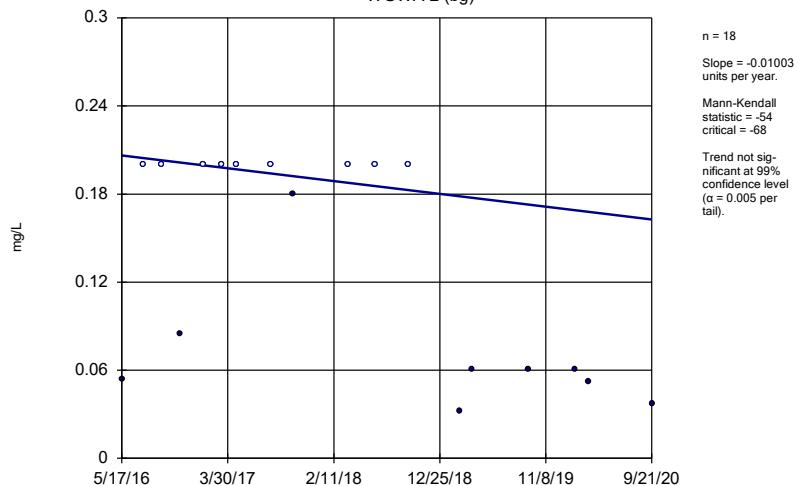
WGWA-18 (bg)



Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

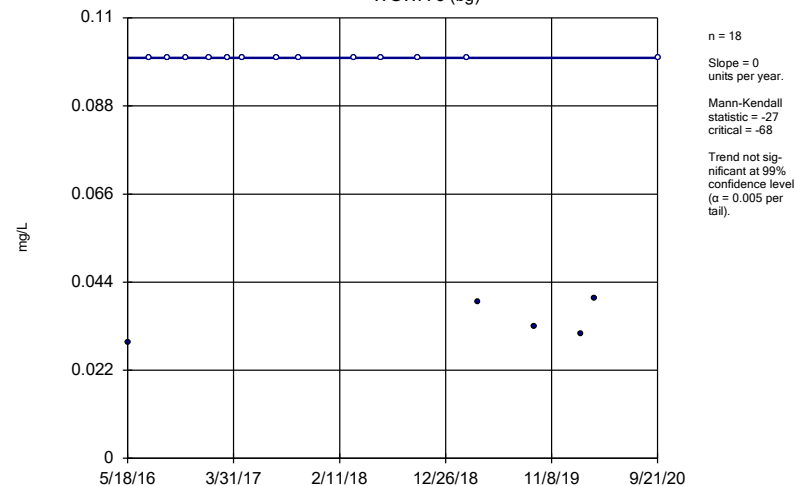
WGWA-2 (bg)



Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

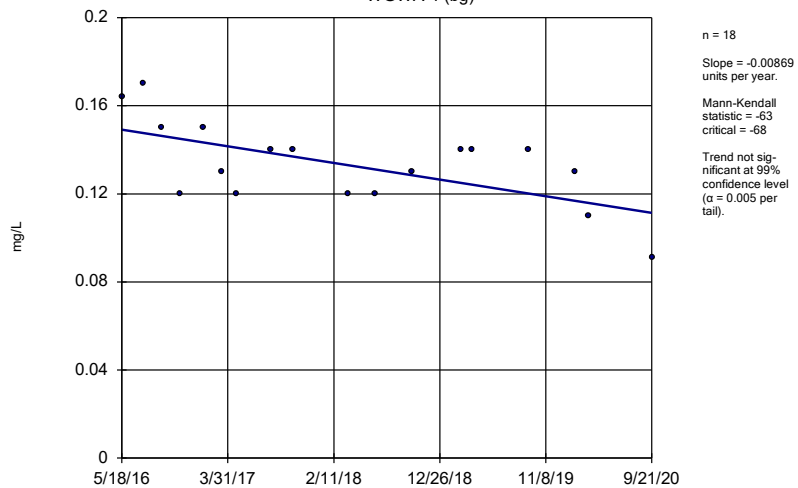
WGWA-3 (bg)



Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

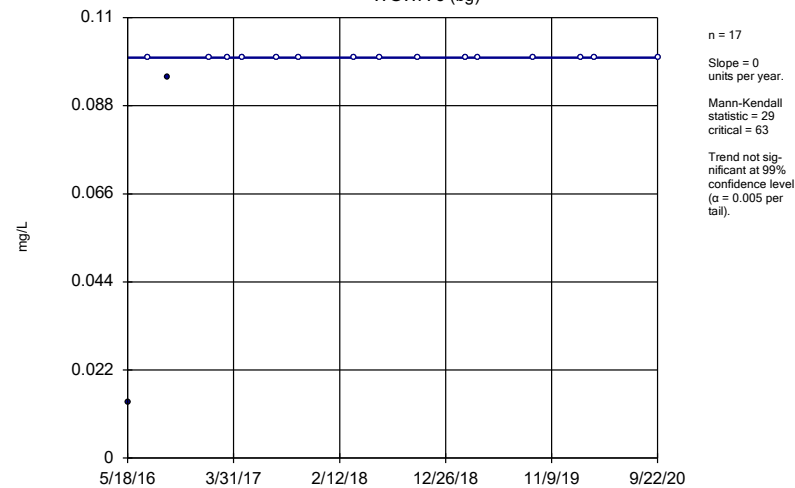
WGWA-4 (bg)



Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

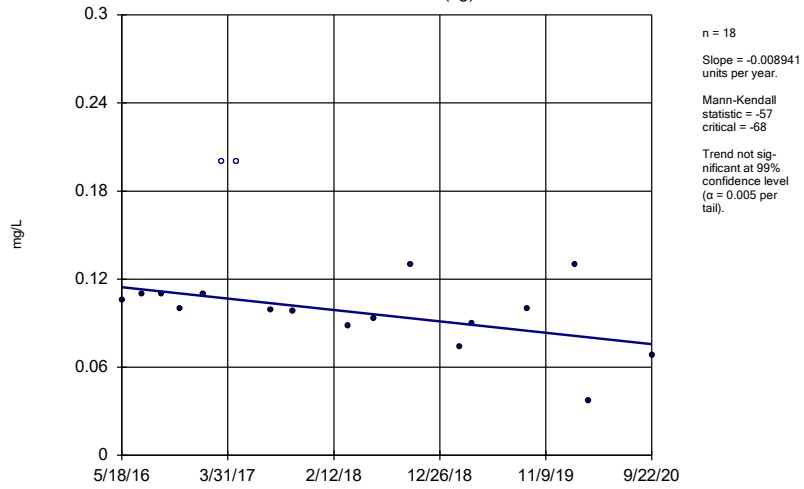
Sen's Slope Estimator

WGWA-5 (bg)



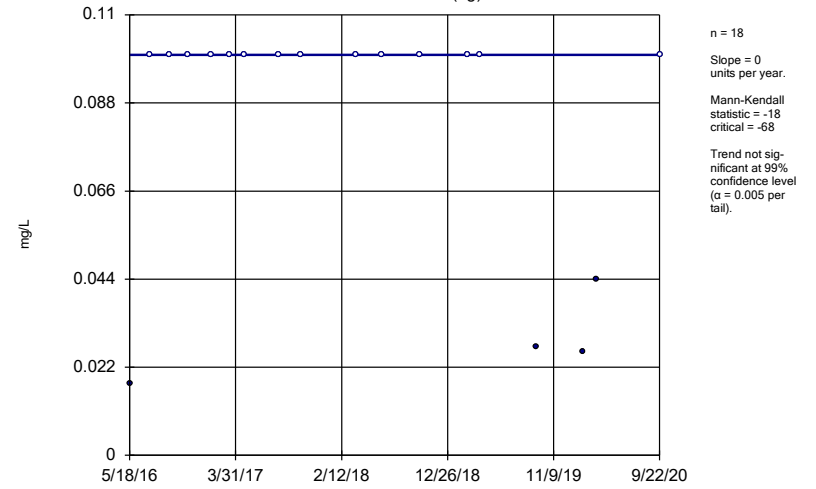
Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-6 (bg)



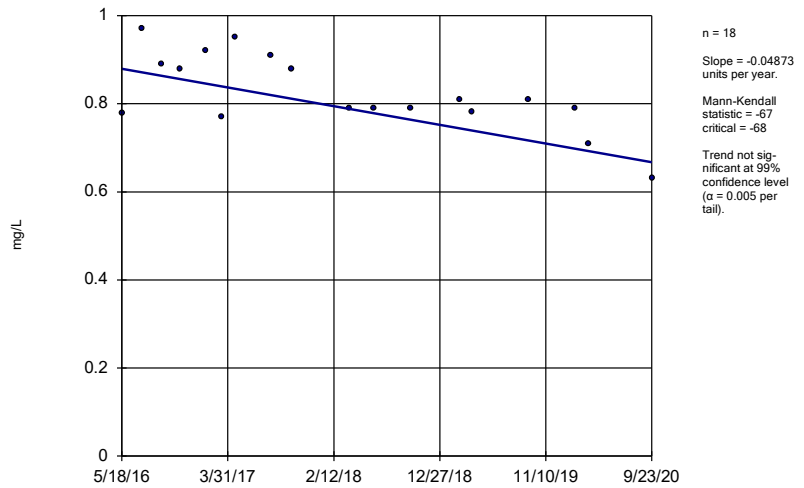
Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-7 (bg)



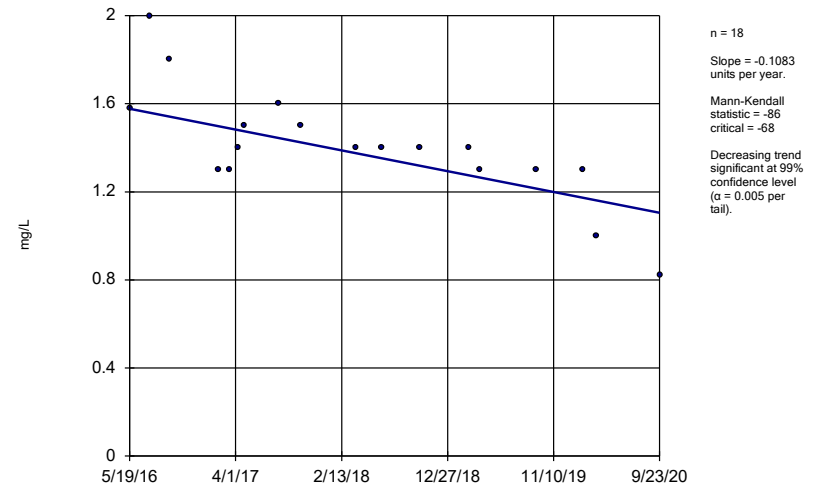
Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-15



Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

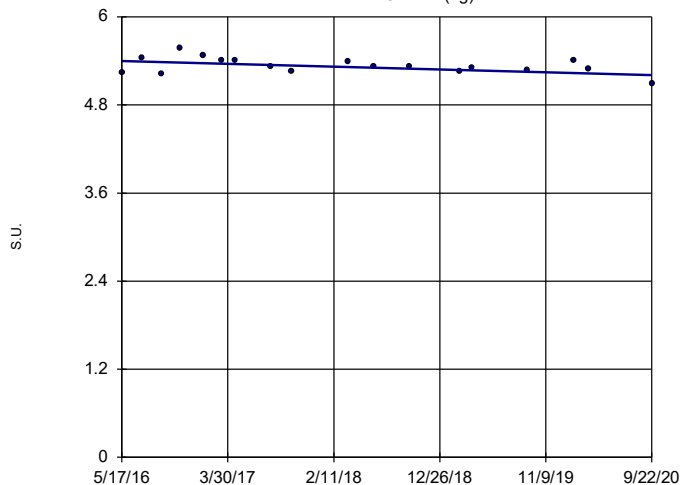
Sen's Slope Estimator
WGWC-9



Constituent: Fluoride Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-1 (bg)

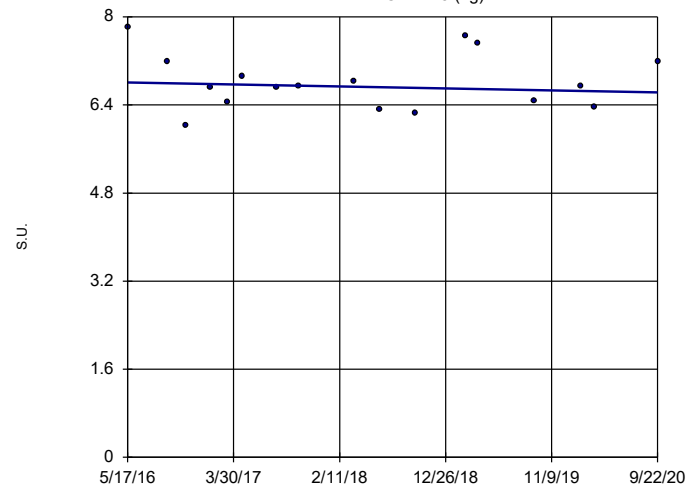


n = 18
 Slope = -0.04386
 units per year.
 Mann-Kendall
 statistic = -45
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: pH Analysis Run 1/6/2021 9:31 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

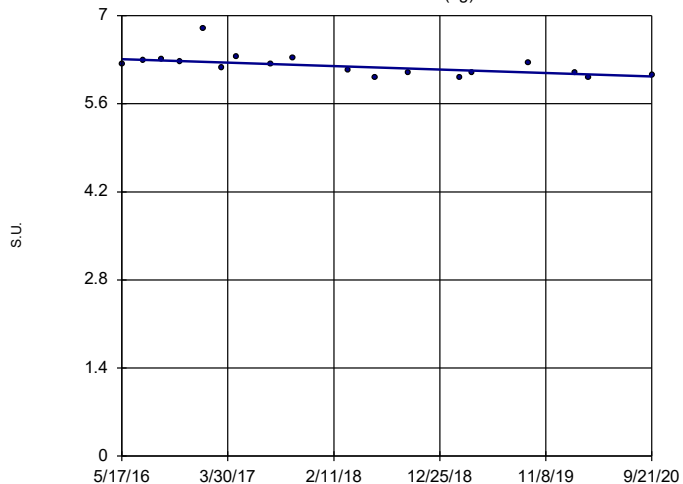


n = 17
 Slope = -0.04192
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: pH Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

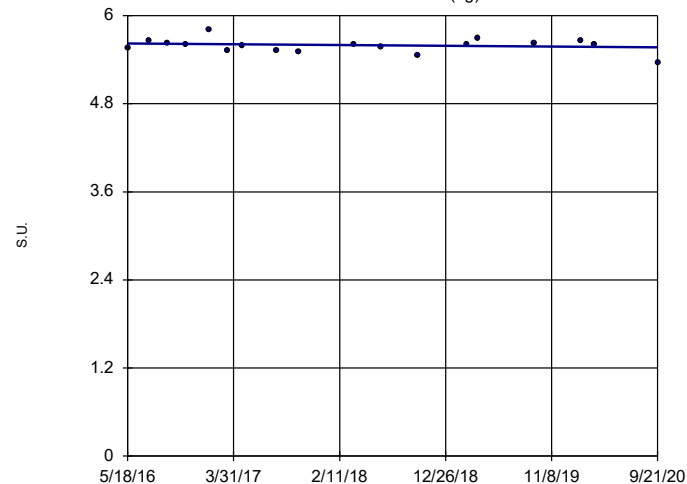


n = 18
 Slope = -0.06212
 units per year.
 Mann-Kendall
 statistic = -78
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: pH Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

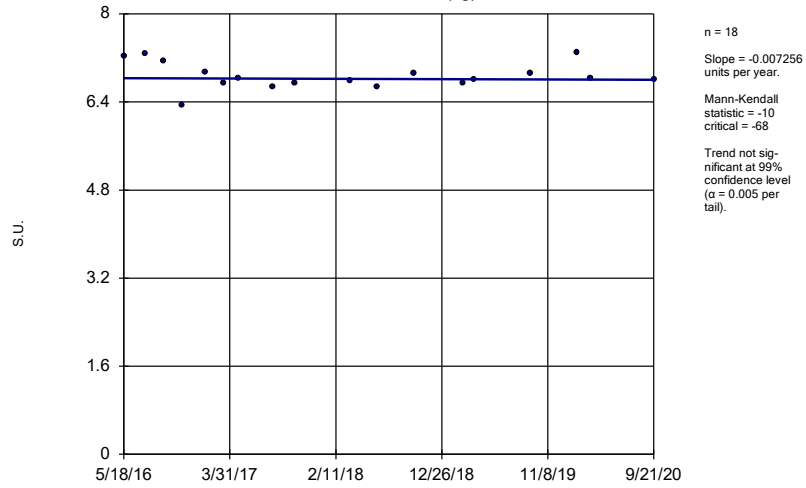


n = 18
 Slope = -0.01158
 units per year.
 Mann-Kendall
 statistic = -13
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: pH Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

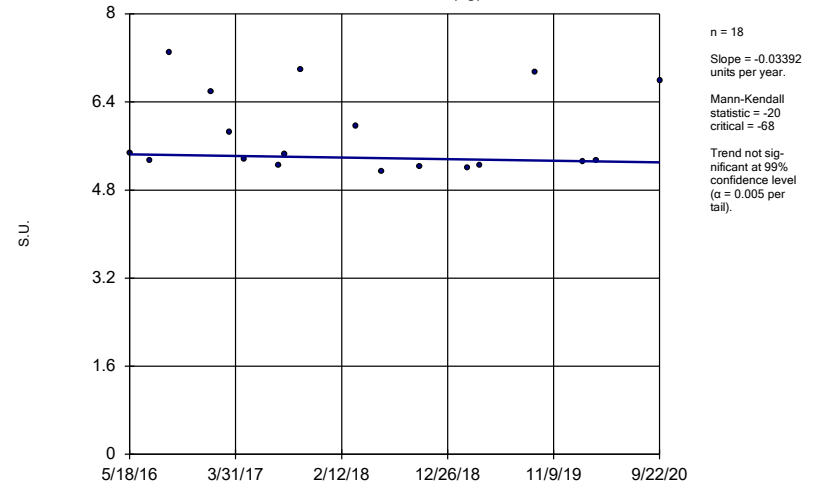
WGWA-4 (bg)



Constituent: pH Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

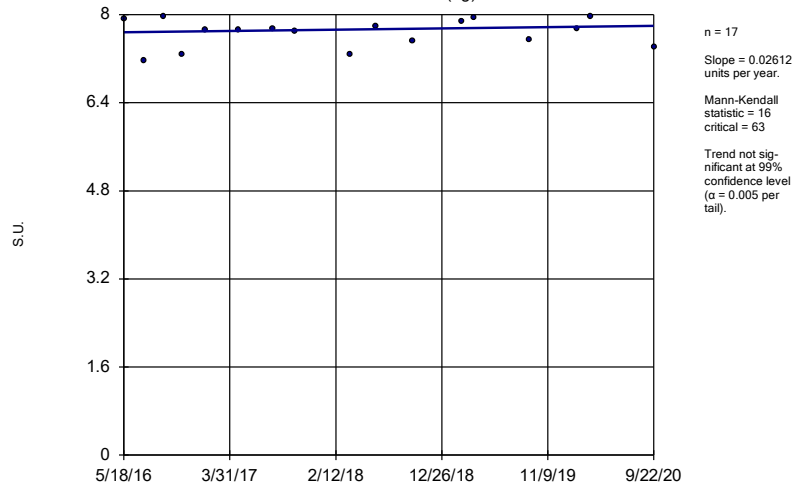
WGWA-5 (bg)



Constituent: pH Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

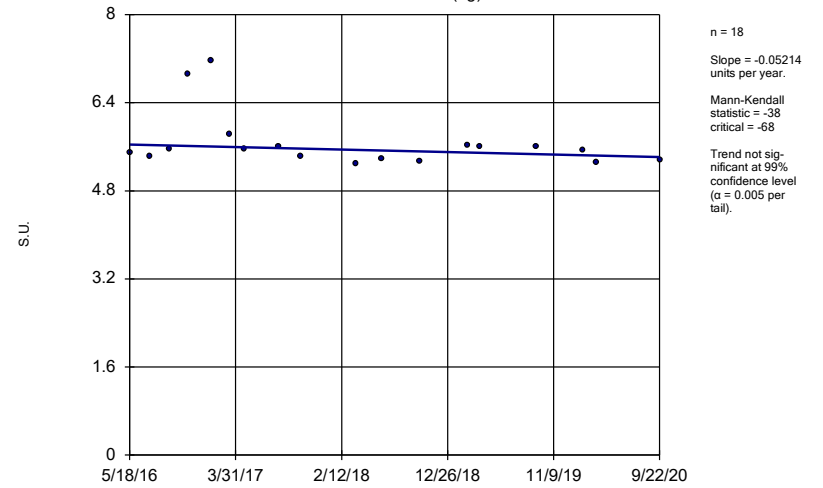
WGWA-6 (bg)



Constituent: pH Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

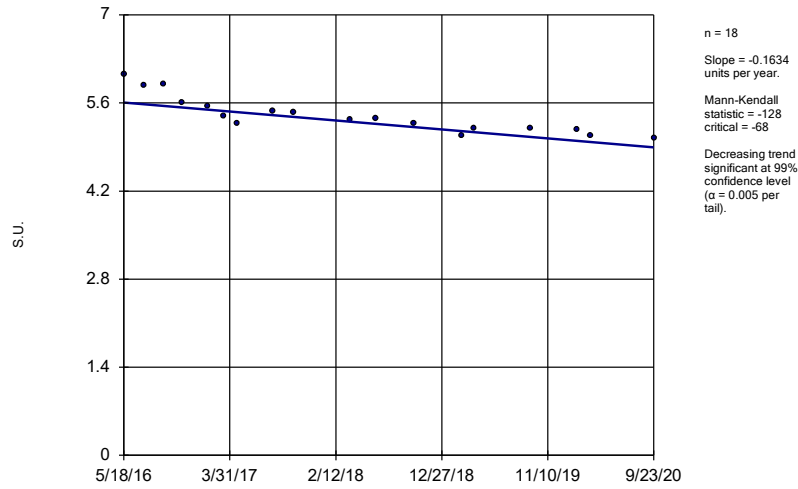
Sen's Slope Estimator

WGWA-7 (bg)



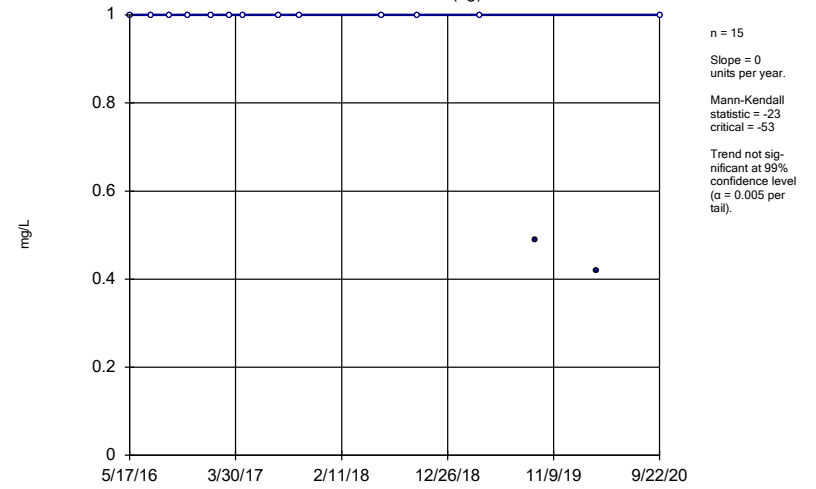
Constituent: pH Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-16



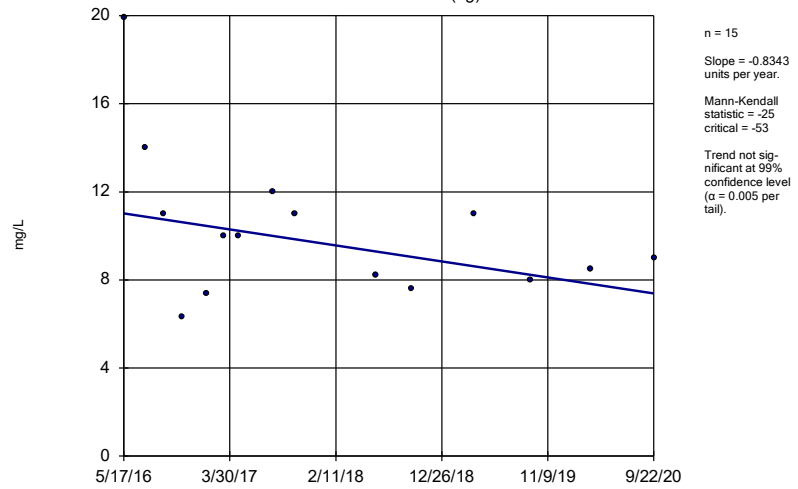
Constituent: pH Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-1 (bg)



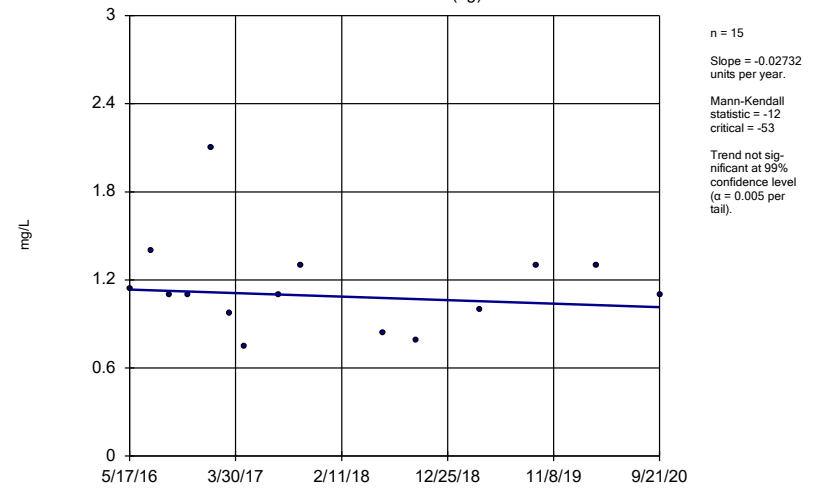
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-18 (bg)



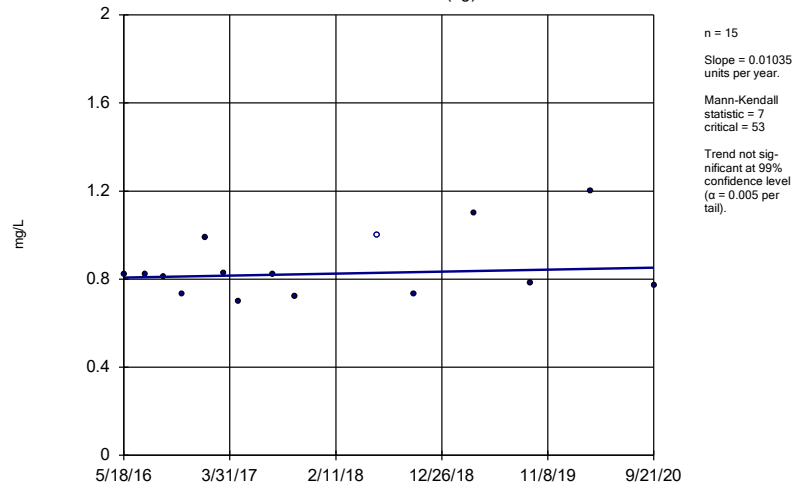
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-2 (bg)



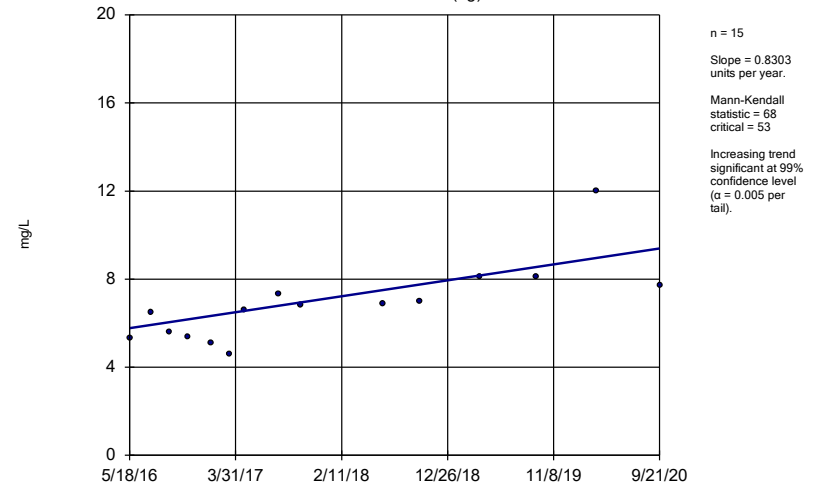
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-3 (bg)



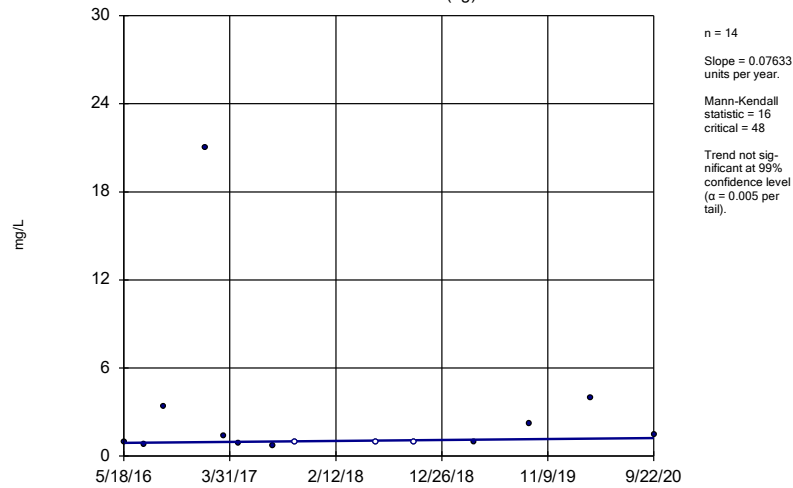
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-4 (bg)



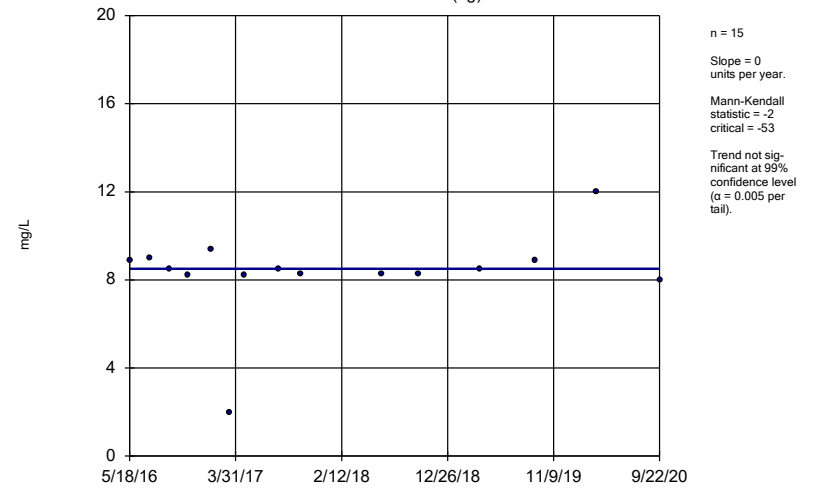
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-5 (bg)



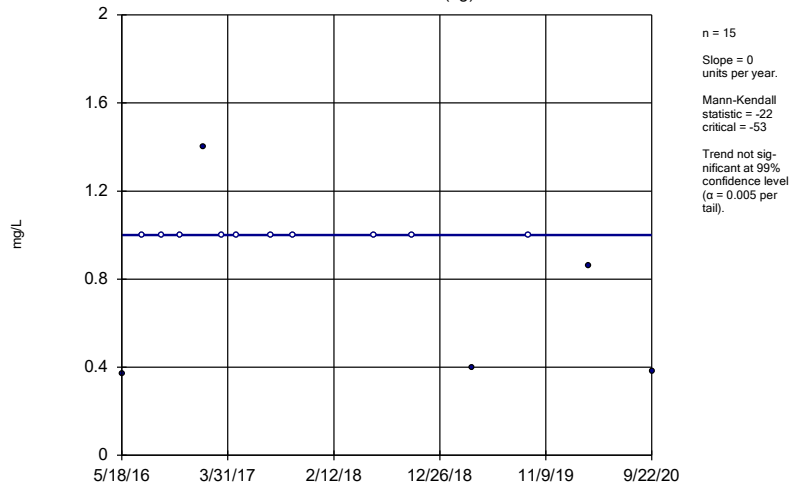
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-6 (bg)



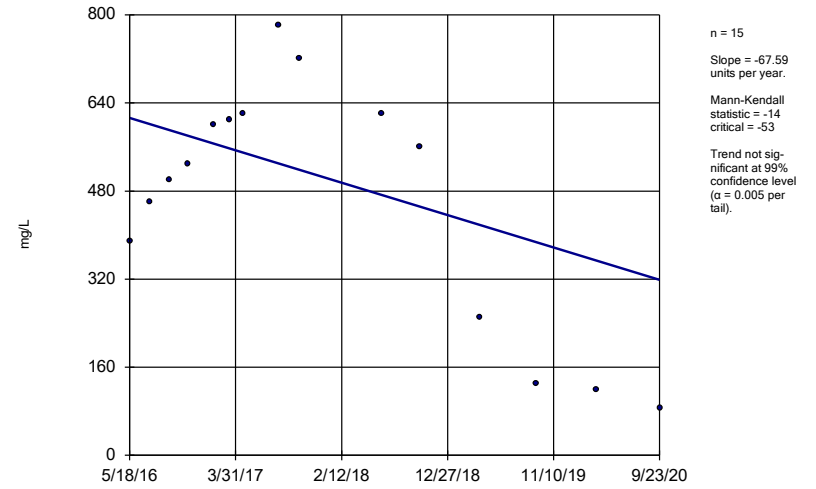
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-7 (bg)



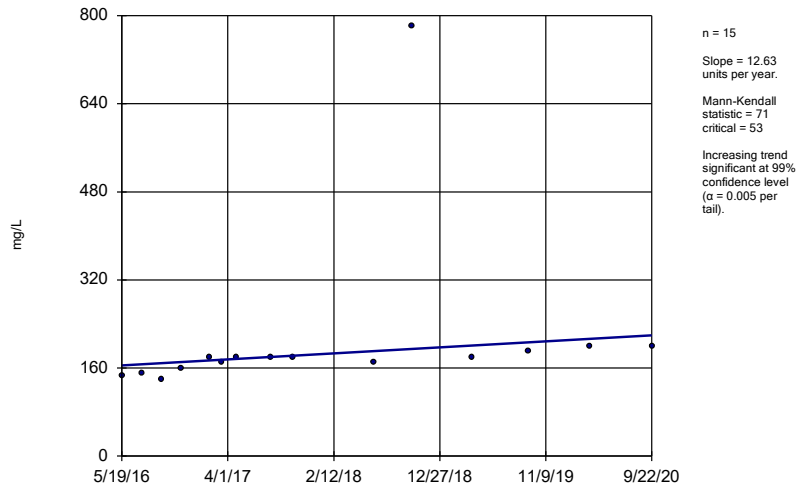
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-16



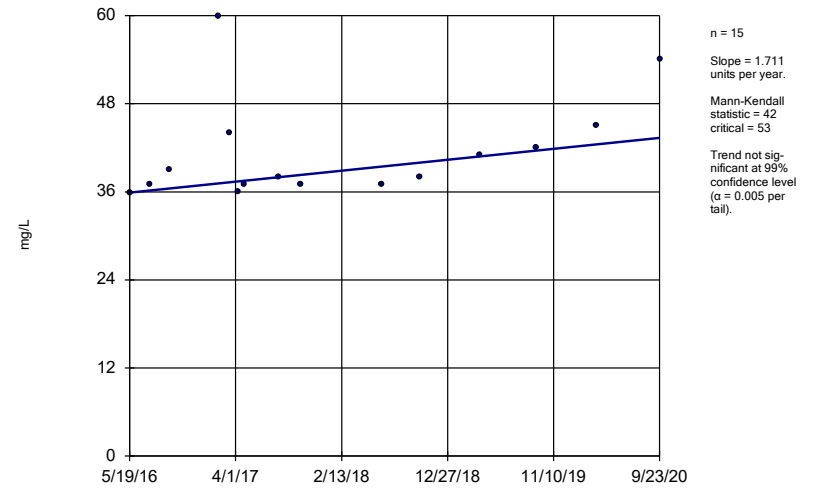
Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-8



Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

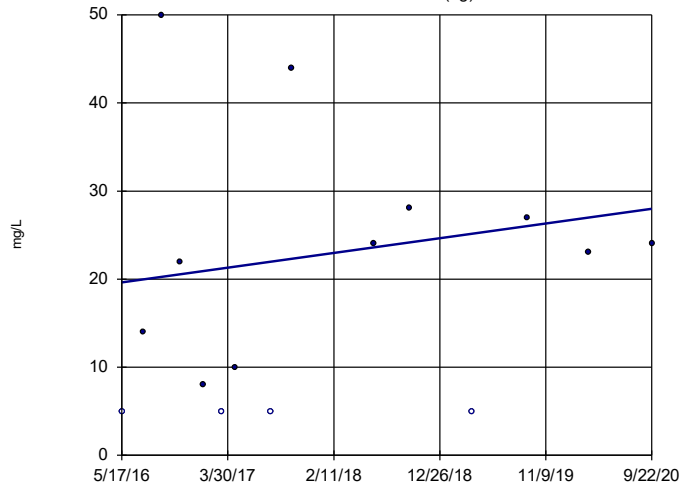
Sen's Slope Estimator
WGWC-9



Constituent: Sulfate Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-1 (bg)

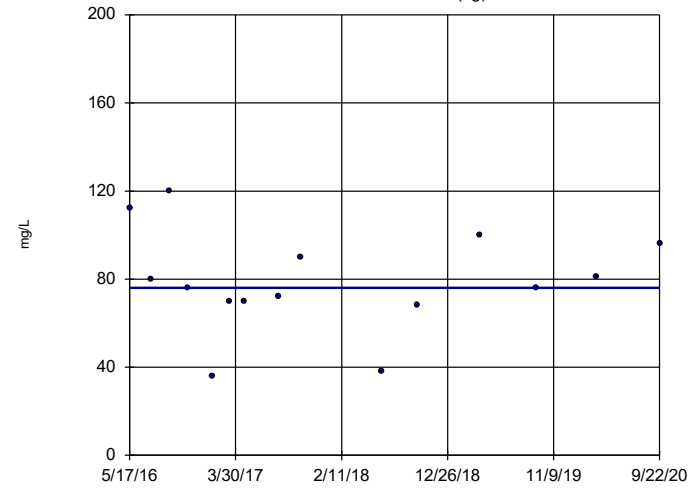


n = 15
 Slope = 1.921
 units per year.
 Mann-Kendall
 statistic = 16
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

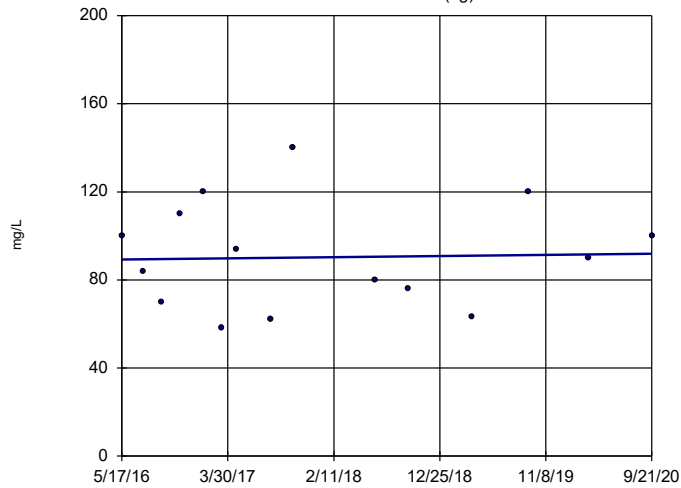


n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

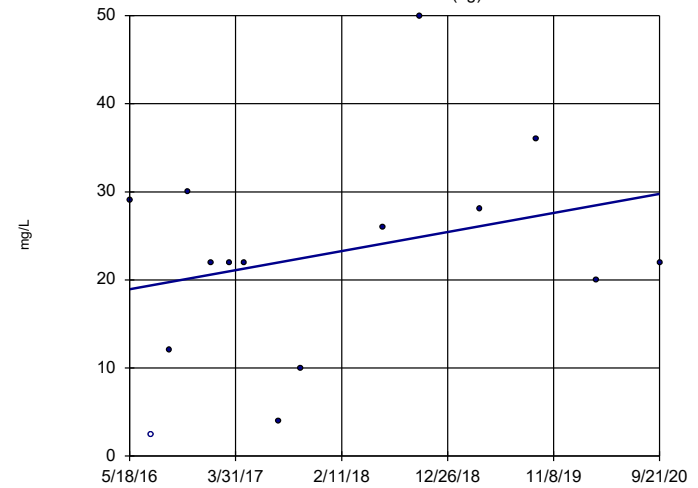


n = 15
 Slope = 0.6073
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

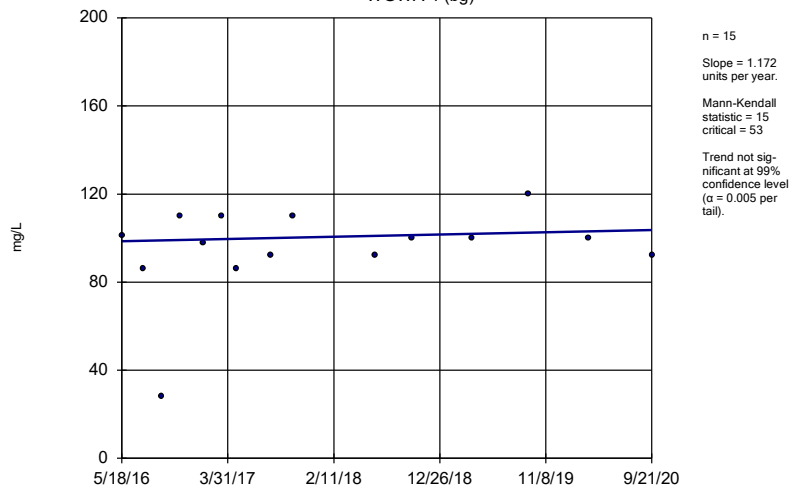


n = 15
 Slope = 2.485
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

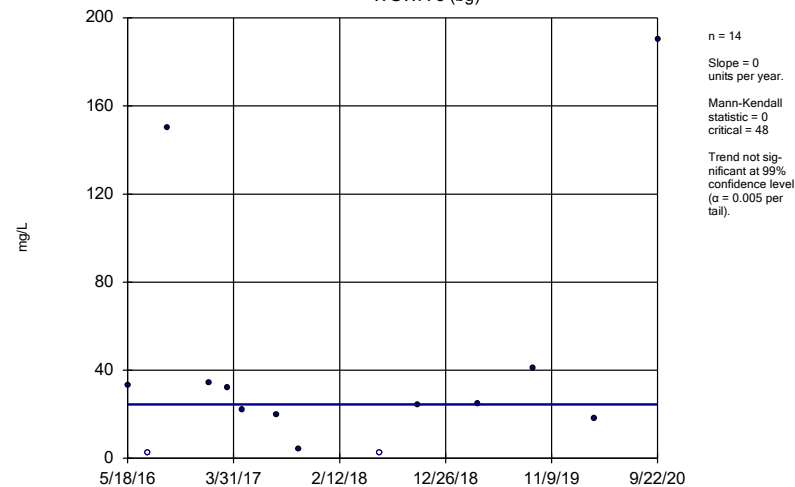
WGWA-4 (bg)



Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

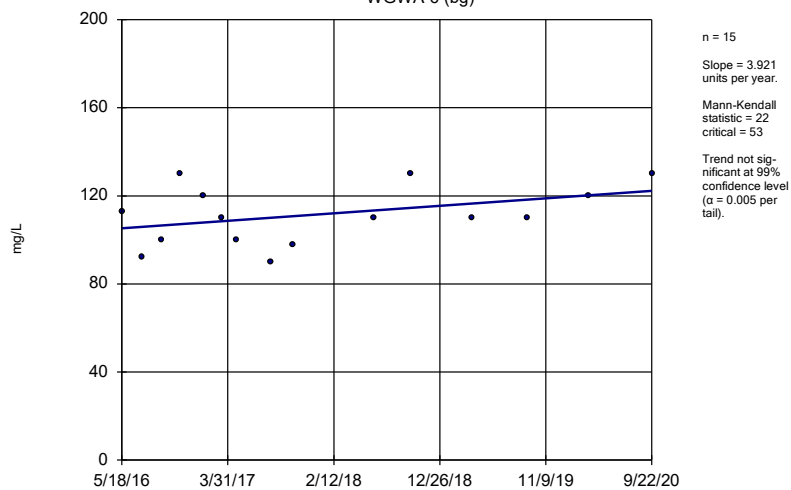
WGWA-5 (bg)



Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

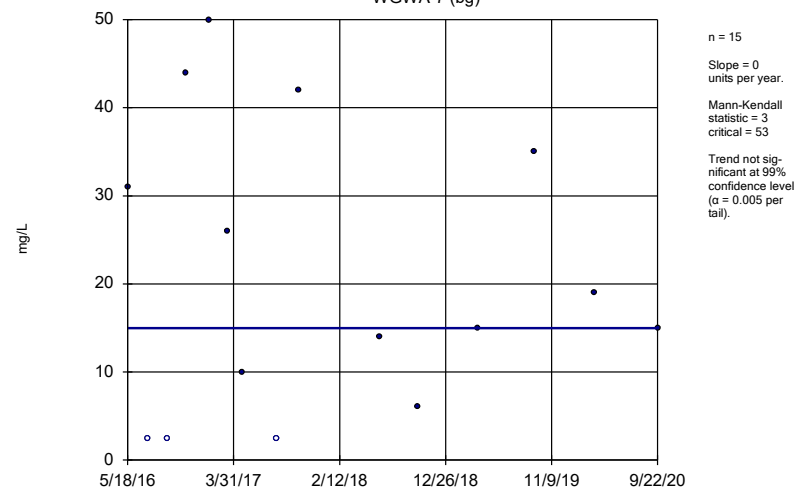
WGWA-6 (bg)



Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

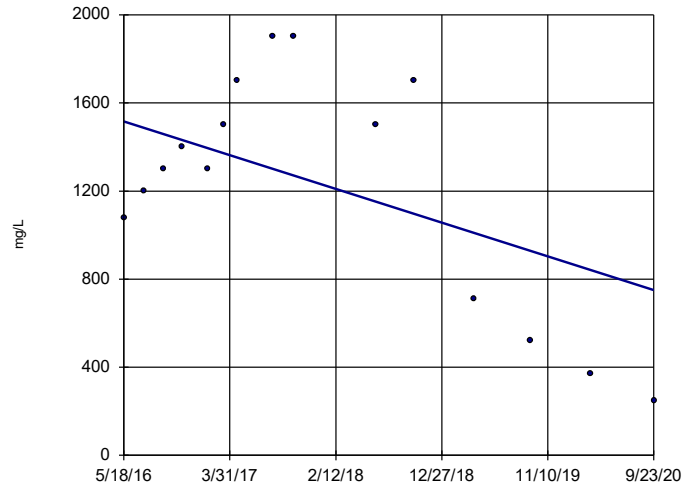
Sen's Slope Estimator

WGWA-7 (bg)



Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

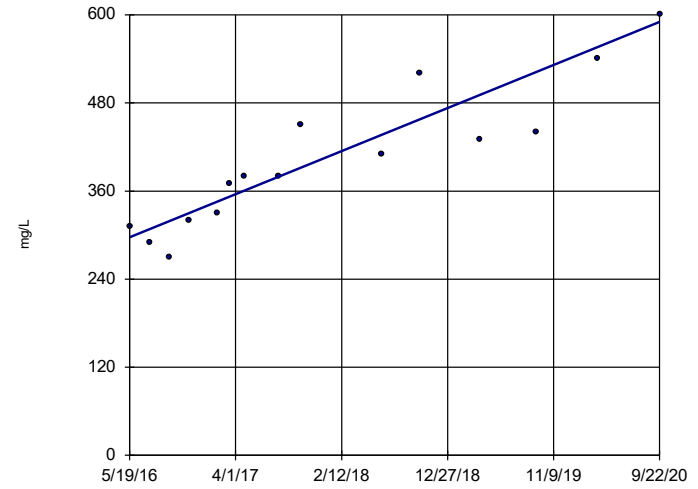
Sen's Slope Estimator WGWC-16



n = 15
Slope = -175.9
units per year.
Mann-Kendall
statistic = -11
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWC-8



n = 15
Slope = 67.41
units per year.
Mann-Kendall
statistic = 88
critical = 53
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 1/6/2021 9:32 AM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:28 AM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0022	n/a	n/a	95	n/a	n/a	98.95	n/a	n/a	0.007651	NP Inter(NDs)
Arsenic (mg/L)	0.0014	n/a	n/a	135	n/a	n/a	77.04	n/a	n/a	0.0009833	NP Inter(NDs)
Barium (mg/L)	0.062	n/a	n/a	135	n/a	n/a	0	n/a	n/a	0.0009833	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	135	n/a	n/a	94.07	n/a	n/a	0.0009833	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	135	n/a	n/a	100	n/a	n/a	0.0009833	NP Inter(NDs)
Chromium (mg/L)	0.0049	n/a	n/a	135	n/a	n/a	94.07	n/a	n/a	0.0009833	NP Inter(NDs)
Cobalt (mg/L)	0.013	n/a	n/a	134	n/a	n/a	46.27	n/a	n/a	0.001035	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	10.4	n/a	n/a	132	n/a	n/a	0	n/a	n/a	0.001147	NP Inter(normality)
Fluoride (mg/L)	0.284	n/a	n/a	143	n/a	n/a	49.65	n/a	n/a	0.0006523	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	119	n/a	n/a	89.08	n/a	n/a	0.002234	NP Inter(NDs)
Lithium (mg/L)	0.009	n/a	n/a	125	n/a	n/a	48.8	n/a	n/a	0.001642	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	119	n/a	n/a	88.24	n/a	n/a	0.002234	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	134	n/a	n/a	88.06	n/a	n/a	0.001035	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	135	n/a	n/a	93.33	n/a	n/a	0.0009833	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	135	n/a	n/a	94.81	n/a	n/a	0.0009833	NP Inter(NDs)

FIGURE G.

WANSLEY AP GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01	0.01
Barium, Total (mg/L)	2		0.062	2	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0049	0.1	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4	10.4
Fluoride, Total (mg/L)	4		0.284	4	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015	0.001
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04	0.009
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1	0.015
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

FIGURE H.

Federal Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:49 AM

<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>
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes 17	0.051	0.007331	0	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No 17	0.0008894	0.000232	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No 17	0.0009129	0.0001943	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No 17	0.0009412	0.0001662	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No 17	0.0008182	0.0003125	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0017	0.00095	0.01	No 17	0.001285	0.0006269	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002339	0.00143	0.01	No 17	0.001885	0.0007251	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001132	0.0006062	0.01	No 17	0.001186	0.000353	41.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No 17	0.00085	0.0001827	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00071	0.01	No 17	0.0009265	0.0002748	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No 17	0.0009971	0.0002263	82.35	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No 17	0.03948	0.00651	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04	0.03	2	No 17	0.03565	0.008299	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-12	0.02011	0.01528	2	No 17	0.01732	0.004491	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05768	0.04573	2	No 17	0.05171	0.009538	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04971	0.03134	2	No 17	0.04053	0.01466	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02291	0.01951	2	No 17	0.02121	0.002709	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No 17	0.05109	0.01664	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01812	0.01304	2	No 17	0.01558	0.004053	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No 17	0.002545	0.001883	23.53	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.001	2	No 17	0.002722	0.001717	29.41	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00076	2	No 17	0.00239	0.001823	29.41	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No 17	0.001836	0.00106	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No 17	0.002366	0.000553	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002075	0.001472	0.004	No 17	0.001774	0.0004805	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No 17	0.001508	0.001086	52.94	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No 17	0.002365	0.0005554	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0025	0.00037	0.005	No 17	0.0009795	0.0008847	23.53	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002131	0.001397	0.1	No 17	0.001982	0.0005982	17.65	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No 17	0.001906	0.0002861	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No 17	0.001988	0.00004851	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No 17	0.001982	0.00007276	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No 17	0.001971	0.0001213	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No 17	0.002029	0.0001213	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001754	0.0008402	0.013	No 17	0.001355	0.0008154	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No 17	0.00163	0.0009355	41.18	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001275	0.0005259	0.013	No 17	0.0009576	0.0006725	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No 17	0.001894	0.0009765	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.01125	0.005977	0.013	No 17	0.008612	0.004205	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-16	0.015	0.00077	0.013	No 17	0.007761	0.00628	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.001804	0.0008596	0.013	No 17	0.001332	0.0007536	5.882	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No 17	0.001489	0.00111	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-8	0.0028	0.00092	0.013	No 17	0.002078	0.0008693	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No 17	0.002396	0.0004293	94.12	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4659	0.1594	10.4	No 17	0.3127	0.2446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6546	0.1387	10.4	No 17	0.3967	0.4117	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6212	0.1291	10.4	No 17	0.3752	0.3927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.8156	0.4825	10.4	No 17	0.6491	0.2658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.866	0.5061	10.4	No 17	0.7028	0.3259	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6598	0.2673	10.4	No 17	0.494	0.3733	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.058	0.8666	10.4	No 17	1.462	0.9507	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5569	0.06753	10.4	No 17	0.3122	0.3905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.471	0.126	10.4	No 17	0.3259	0.3114	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.902	1.209	10.4	No 17	1.555	0.5528	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3671	0.1214	10.4	No 17	0.2443	0.1961	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	WGWC-10	0.1805	0.1282	4	No	18	0.1543	0.04325	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.18	0.047	4	No	18	0.08867	0.03457	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.09839	0.07499	4	No	18	0.09261	0.02161	22.22	Kaplan-Meier	x^2	0.01	Param.
Fluoride (mg/L)	WGWC-13	0.3044	0.2216	4	No	18	0.263	0.06839	5.556	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.048	4	No	18	0.08617	0.02686	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.8772	0.7727	4	No	18	0.8249	0.08641	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.18	0.08	4	No	18	0.1713	0.1929	11.11	None	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.1445	0.09284	4	No	18	0.1187	0.04269	5.556	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3816	0.3251	4	No	18	0.3533	0.04665	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3674	0.2076	4	No	18	0.2875	0.1321	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.563	1.248	4	No	18	1.406	0.261	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.015	No	15	0.0007427	0.0003812	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	15	0.00093	0.0001889	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.015	No	15	0.000778	0.0002525	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-14A	0.001	0.00018	0.015	No	15	0.00089	0.0002903	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	15	0.0009427	0.0002221	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	15	0.000902	0.0002598	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	15	0.0008307	0.0003506	80	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	15	0.0009427	0.0002221	93.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01611	0.008063	0.04	No	17	0.01257	0.007135	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	17	0.004371	0.001407	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007752	0.00589	0.04	No	17	0.006659	0.001801	5.882	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.04	No	17	0.004429	0.001125	76.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	17	0.004094	0.00138	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.006859	0.005329	0.04	No	17	0.006094	0.001221	11.76	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01108	0.007147	0.04	No	17	0.009112	0.003135	5.882	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005807	0.004711	0.04	No	17	0.005259	0.0008747	5.882	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes	17	0.051	0.007331	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.018	0.013	0.04	No	17	0.01768	0.01083	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03892	0.03255	0.04	No	17	0.03574	0.005081	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.000085	0.002	No	15	0.000172	0.00004926	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	15	0.0001861	0.00003697	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00011	0.002	No	15	0.0001786	0.00004172	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	15	0.0001843	0.00004152	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	15	0.0001953	0.00001807	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000086	0.002	No	15	0.000169	0.00005338	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	15	0.0001853	0.00003796	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	15	0.0001916	0.00003253	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	15	0.0001864	0.00003684	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	15	0.0001812	0.00004016	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	15	0.0001953	0.00001807	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	17	0.01334	0.004676	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	17	0.0134	0.004518	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.1	No	17	0.01105	0.006369	70.59	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.1	No	17	0.004565	0.005042	17.65	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	17	0.01418	0.003395	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.007348	0.003585	0.1	No	17	0.0057	0.003489	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.006141	0.002871	0.1	No	17	0.004506	0.002609	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	17	0.006947	0.006946	41.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.006736	0.003775	0.1	No	17	0.005678	0.003554	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	17	0.004724	0.001137	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	17	0.004735	0.001094	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	17	0.004829	0.0007034	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	17	0.004724	0.00114	94.12	None	No	0.01	NP (NDs)

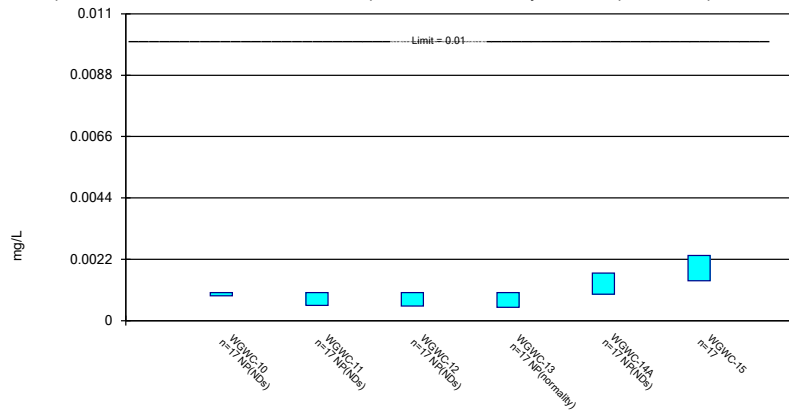
Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/6/2021, 9:49 AM

<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>
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No 17	0.004735	0.001091	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01182	0.006555	0.05	No 17	0.009185	0.004197	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No 17	0.004727	0.001125	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.00388	0.003034	0.05	No 17	0.003481	0.0006945	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002742	0.002115	0.05	No 17	0.002428	0.0005001	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No 17	0.0009462	0.0002219	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No 17	0.0005512	0.000437	47.06	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No 17	0.0004153	0.000391	29.41	None	No	0.01	NP (normality)

Parametric and Non-Parametric (NP) Confidence Interval

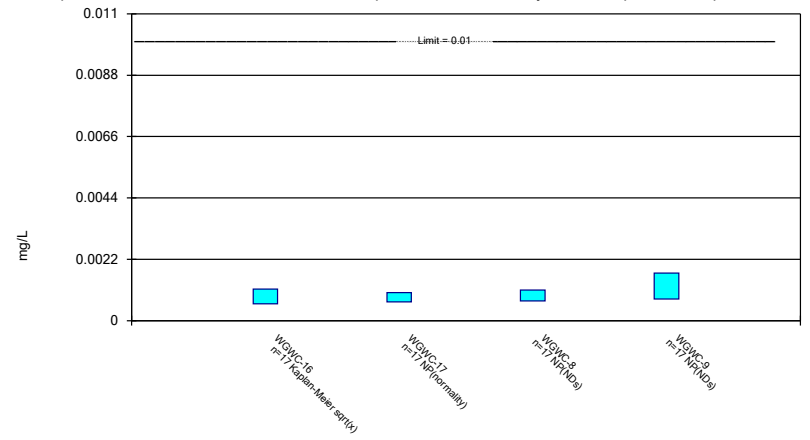
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Constituent: Arsenic Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

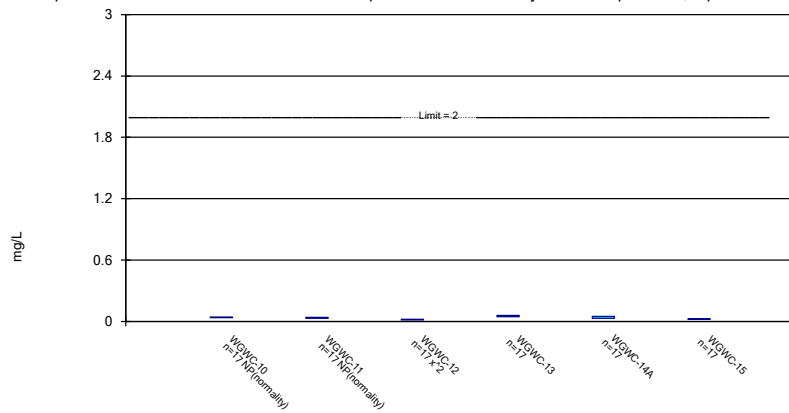
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Constituent: Arsenic Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

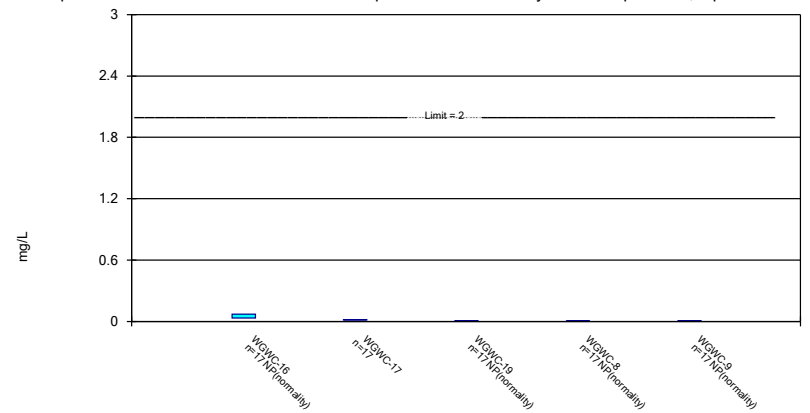
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Constituent: Barium Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

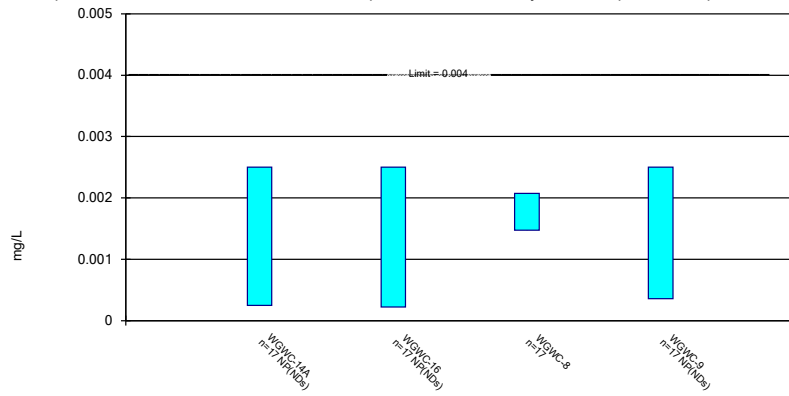
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Constituent: Barium Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

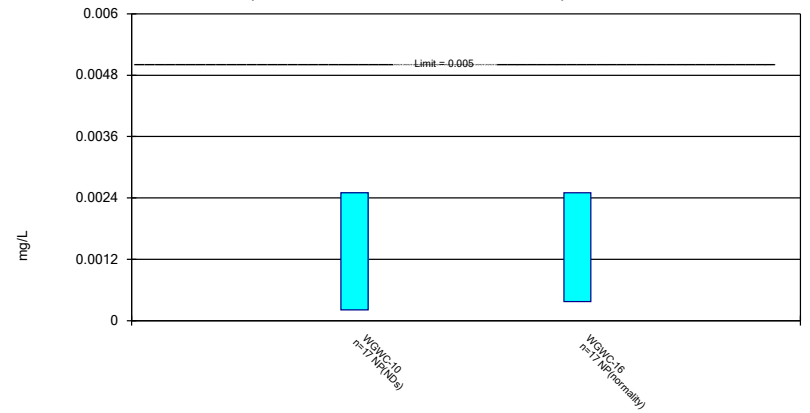
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Constituent: Beryllium Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

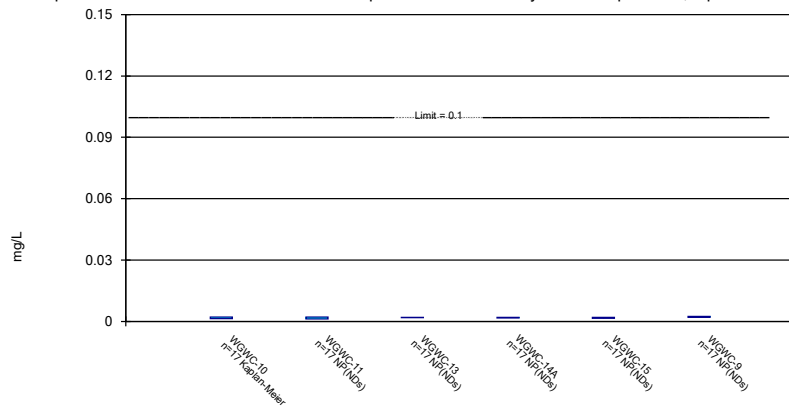
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Constituent: Cadmium Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

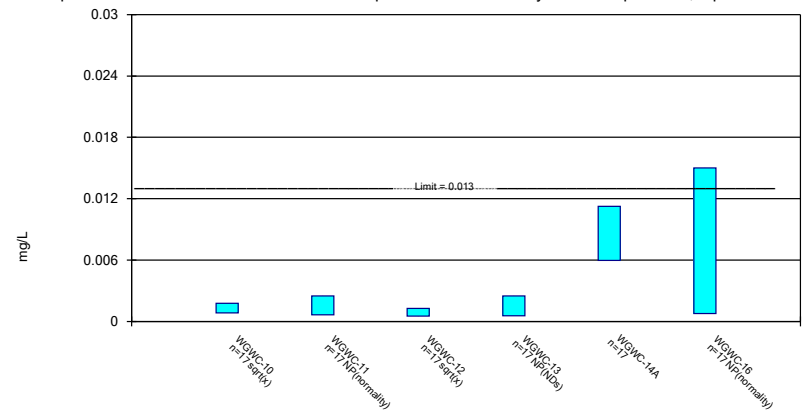
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

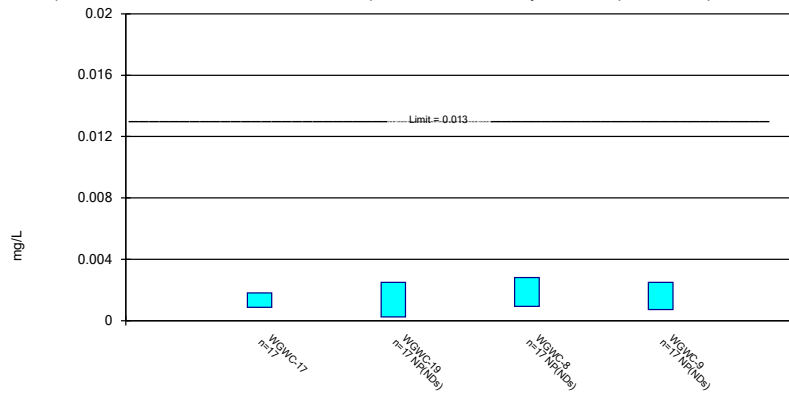
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Constituent: Cobalt Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

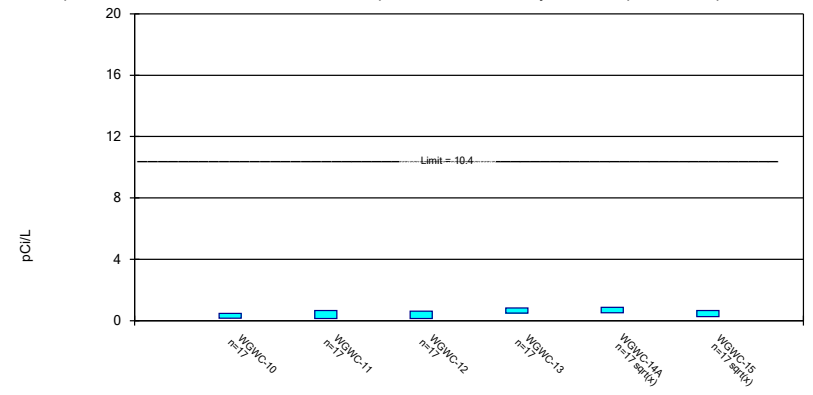
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

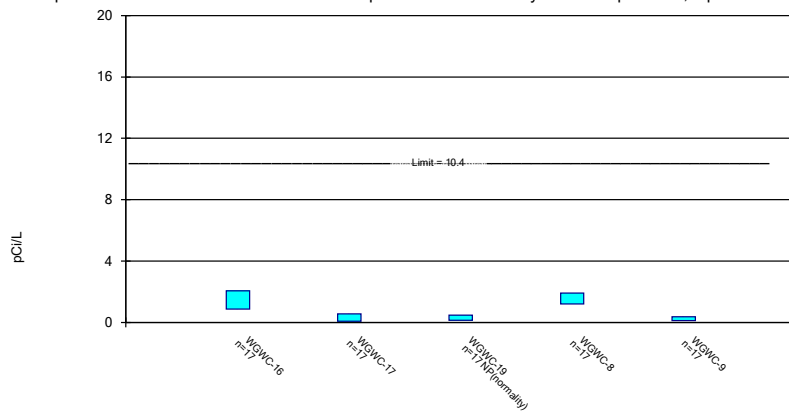
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

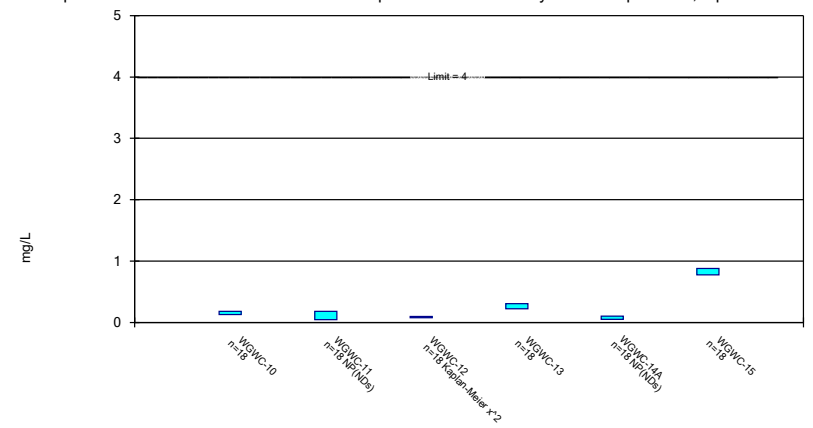
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

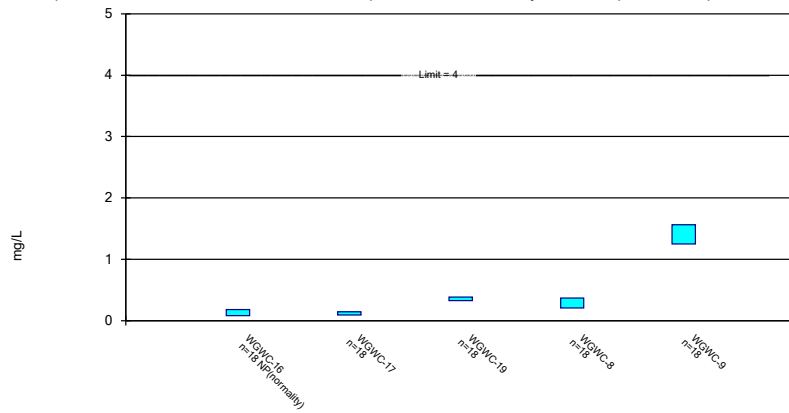
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Constituent: Fluoride Analysis Run 1/6/2021 9:48 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

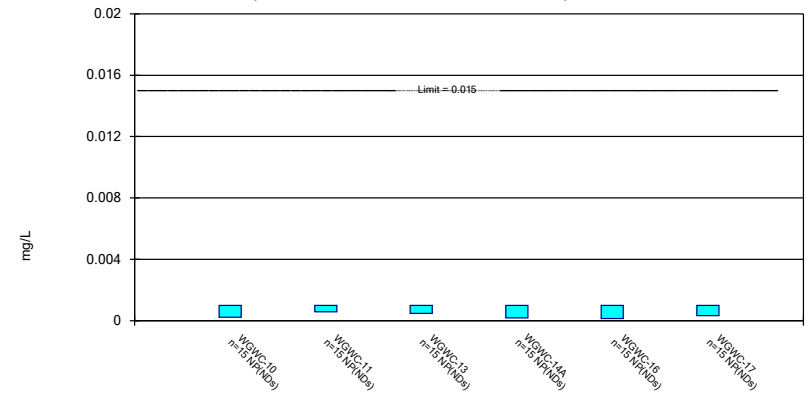
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Constituent: Fluoride Analysis Run 1/6/2021 9:48 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

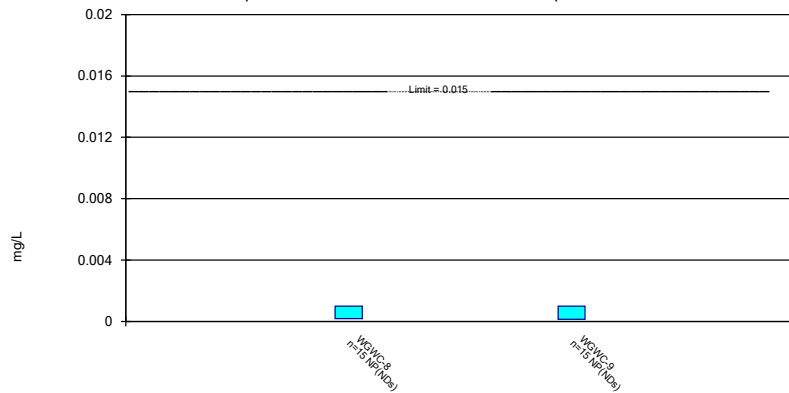
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Constituent: Lead Analysis Run 1/6/2021 9:48 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

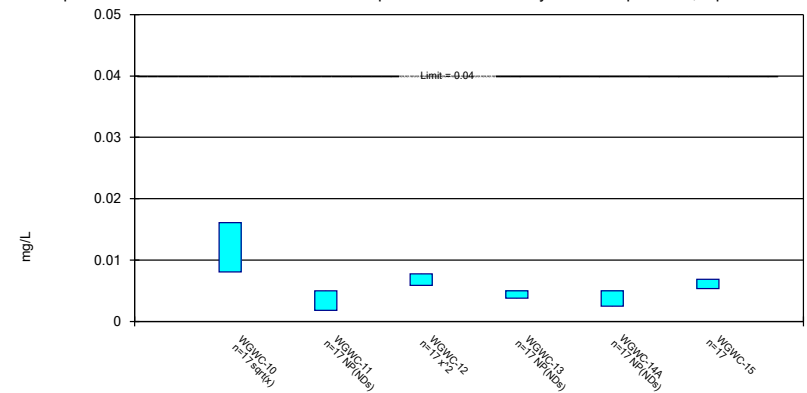
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Constituent: Lead Analysis Run 1/6/2021 9:48 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

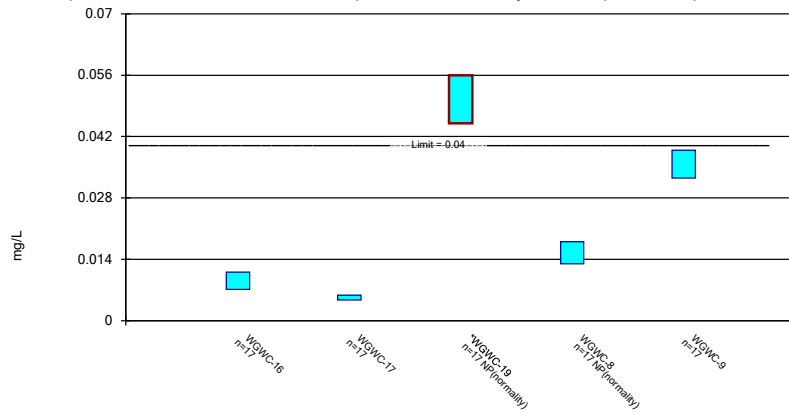
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/6/2021 9:48 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

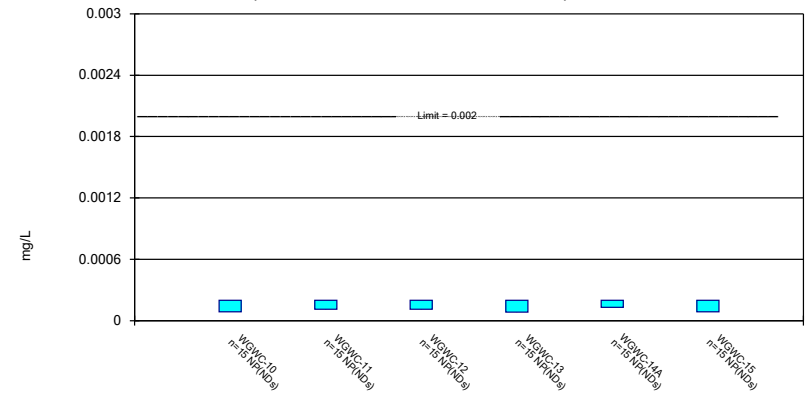
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/6/2021 9:48 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

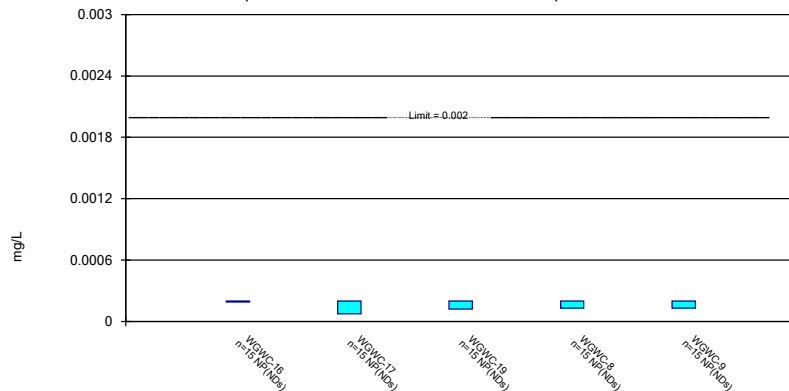
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/6/2021 9:48 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

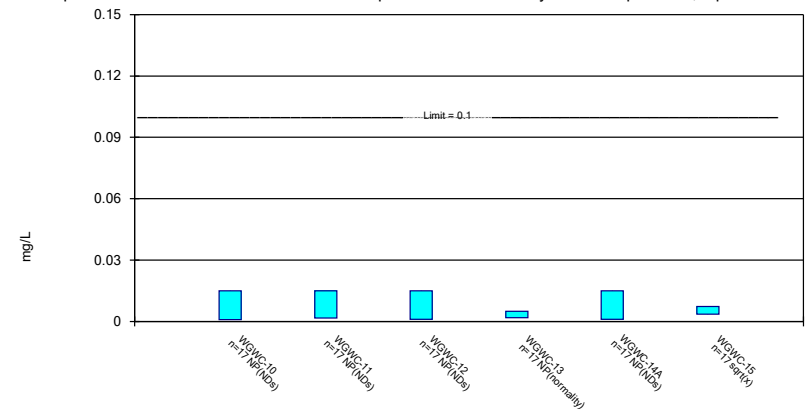
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/6/2021 9:48 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

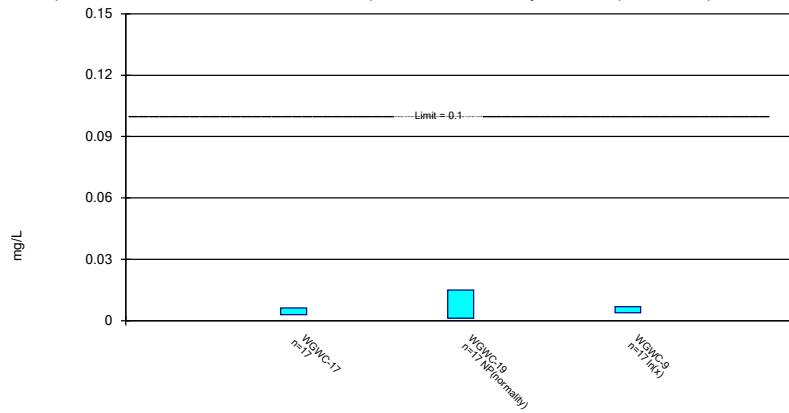
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/6/2021 9:48 AM View: Appendix IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

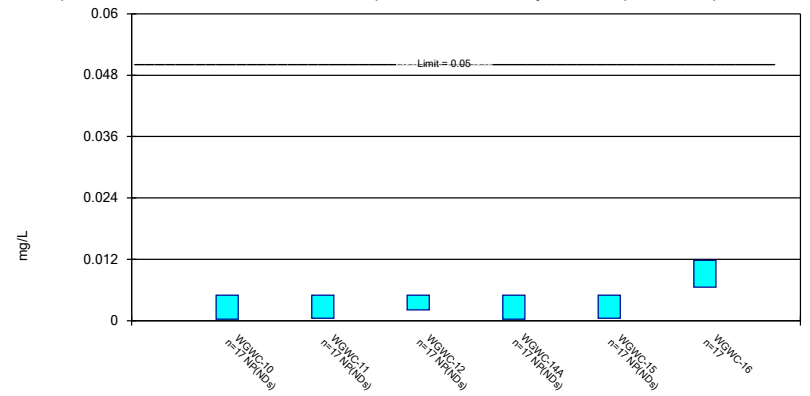
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/6/2021 9:49 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

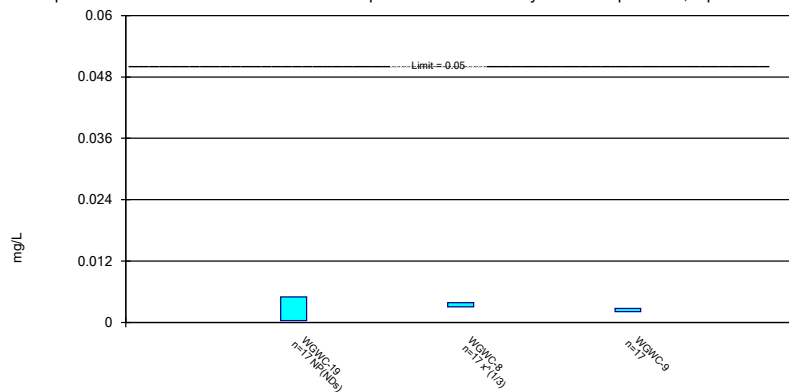
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/6/2021 9:49 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

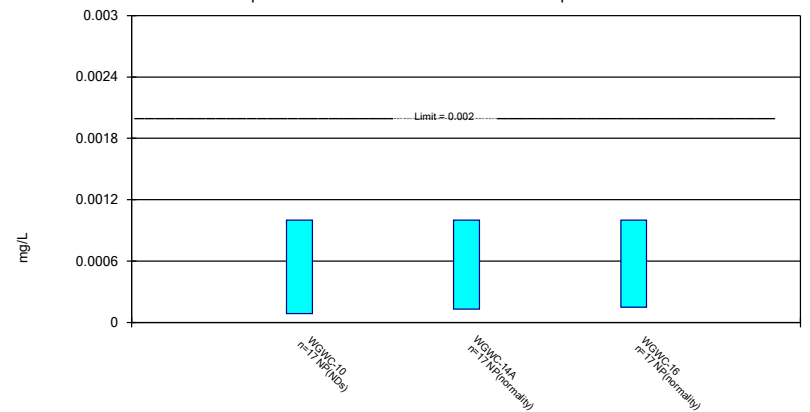
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/6/2021 9:49 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/6/2021 9:49 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE I.

State Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes 17	0.051	0.007331	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.018	0.013	0.009	Yes 17	0.01768	0.01083	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03892	0.03255	0.009	Yes 17	0.03574	0.005081	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	17	0.0008894	0.000232	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	17	0.0009129	0.0001943	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	17	0.0009412	0.0001662	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	17	0.0008182	0.0003125	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0017	0.00095	0.01	No	17	0.001285	0.0006269	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002339	0.00143	0.01	No	17	0.001885	0.0007251	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001132	0.0006062	0.01	No	17	0.001186	0.000353	41.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	17	0.00085	0.0001827	47.06	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00071	0.01	No	17	0.0009265	0.0002748	58.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	17	0.0009971	0.0002263	82.35	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	17	0.03948	0.00651	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04	0.03	2	No	17	0.03565	0.008299	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-12	0.02011	0.01528	2	No	17	0.01732	0.004491	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05768	0.04573	2	No	17	0.05171	0.009538	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04971	0.03134	2	No	17	0.04053	0.01466	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02291	0.01951	2	No	17	0.02121	0.002709	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	17	0.05109	0.01664	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01812	0.01304	2	No	17	0.01558	0.004053	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	17	0.002545	0.001883	23.53	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.001	2	No	17	0.002722	0.001717	29.41	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00076	2	No	17	0.00239	0.001823	29.41	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	17	0.001836	0.00106	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	17	0.002366	0.000553	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002075	0.001472	0.004	No	17	0.001774	0.0004805	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	17	0.001508	0.001086	52.94	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	17	0.002365	0.0005554	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0025	0.00037	0.005	No	17	0.0009795	0.0008847	23.53	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002131	0.001397	0.1	No	17	0.001982	0.0005982	17.65	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	17	0.001906	0.0002861	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	17	0.001988	0.00004851	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	17	0.001982	0.00007276	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	17	0.001971	0.0001213	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	17	0.002029	0.0001213	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001754	0.0008402	0.013	No	17	0.001355	0.0008154	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	17	0.00163	0.0009355	41.18	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001275	0.0005259	0.013	No	17	0.0009576	0.0006725	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	17	0.001894	0.0009765	70.59	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.01125	0.005977	0.013	No	17	0.008612	0.004205	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-16	0.015	0.00077	0.013	No	17	0.007761	0.00628	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.001804	0.0008596	0.013	No	17	0.001332	0.0007536	5.882	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	17	0.001489	0.00111	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-8	0.0028	0.00092	0.013	No	17	0.002078	0.0008693	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	17	0.002396	0.0004293	94.12	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4659	0.1594	10.4	No	17	0.3127	0.2446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6546	0.1387	10.4	No	17	0.3967	0.4117	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6212	0.1291	10.4	No	17	0.3752	0.3927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.8156	0.4825	10.4	No	17	0.6491	0.2658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.866	0.5061	10.4	No	17	0.7028	0.3259	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6598	0.2673	10.4	No	17	0.494	0.3733	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.058	0.8666	10.4	No	17	1.462	0.9507	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5569	0.06753	10.4	No	17	0.3122	0.3905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.471	0.126	10.4	No	17	0.3259	0.3114	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.902	1.209	10.4	No	17	1.555	0.5528	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3671	0.1214	10.4	No	17	0.2443	0.1961	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	WGWC-10	0.1805	0.1282	4	No	18	0.1543	0.04325	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.18	0.047	4	No	18	0.08867	0.03457	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.09839	0.07499	4	No	18	0.09261	0.02161	22.22	Kaplan-Meier	x^2	0.01	Param.
Fluoride (mg/L)	WGWC-13	0.3044	0.2216	4	No	18	0.263	0.06839	5.556	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.048	4	No	18	0.08617	0.02686	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.8772	0.7727	4	No	18	0.8249	0.08641	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.18	0.08	4	No	18	0.1713	0.1929	11.11	None	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.1445	0.09284	4	No	18	0.1187	0.04269	5.556	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3816	0.3251	4	No	18	0.3533	0.04665	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3674	0.2076	4	No	18	0.2875	0.1321	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.563	1.248	4	No	18	1.406	0.261	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.001	No	15	0.0007427	0.0003812	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.001	No	15	0.00093	0.0001889	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.001	No	15	0.000778	0.0002525	53.33	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-14A	0.001	0.00018	0.001	No	15	0.00089	0.0002903	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.001	No	15	0.0009427	0.0002221	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.001	No	15	0.000902	0.0002598	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.001	No	15	0.0008307	0.0003506	80	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.001	No	15	0.0009427	0.0002221	93.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01611	0.008063	0.009	No	17	0.01257	0.007135	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	17	0.004371	0.001407	82.35	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007752	0.00589	0.009	No	17	0.006659	0.001801	5.882	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.009	No	17	0.004429	0.001125	76.47	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.009	No	17	0.004094	0.00138	64.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.006859	0.005329	0.009	No	17	0.006094	0.001221	11.76	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01108	0.007147	0.009	No	17	0.009112	0.003135	5.882	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005807	0.004711	0.009	No	17	0.005259	0.0008747	5.882	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes	17	0.051	0.007331	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.018	0.013	0.009	Yes	17	0.01768	0.01083	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03892	0.03255	0.009	Yes	17	0.03574	0.005081	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.000085	0.002	No	15	0.000172	0.00004926	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	15	0.0001861	0.00003697	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00011	0.002	No	15	0.0001786	0.00004172	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	15	0.0001843	0.00004152	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	15	0.0001953	0.00001807	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000086	0.002	No	15	0.000169	0.00005338	73.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	15	0.0001853	0.00003796	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	15	0.0001916	0.00003253	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	15	0.0001864	0.00003684	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	15	0.0001812	0.00004016	80	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	15	0.0001953	0.00001807	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	17	0.01334	0.004676	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.015	No	17	0.0134	0.004518	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.015	No	17	0.01105	0.006369	70.59	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.015	No	17	0.004565	0.005042	17.65	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	17	0.01418	0.003395	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.007348	0.003585	0.015	No	17	0.0057	0.003489	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.006141	0.002871	0.015	No	17	0.004506	0.002609	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	17	0.006947	0.006946	41.18	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.006736	0.003775	0.015	No	17	0.005678	0.003554	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	17	0.004724	0.001137	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	17	0.004735	0.001094	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	17	0.004829	0.0007034	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	17	0.004724	0.00114	94.12	None	No	0.01	NP (NDs)

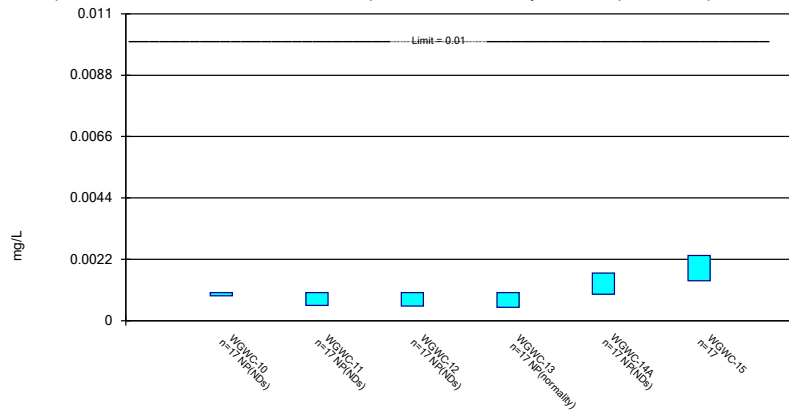
State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 1/8/2021, 10:32 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	17	0.004735	0.001091	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01182	0.006555	0.05	No	17	0.009185	0.004197	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	17	0.004727	0.001125	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.00388	0.003034	0.05	No	17	0.003481	0.0006945	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002742	0.002115	0.05	No	17	0.002428	0.0005001	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	17	0.0009462	0.0002219	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	17	0.0005512	0.000437	47.06	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	17	0.0004153	0.000391	29.41	None	No	0.01	NP (normality)

Parametric and Non-Parametric (NP) Confidence Interval

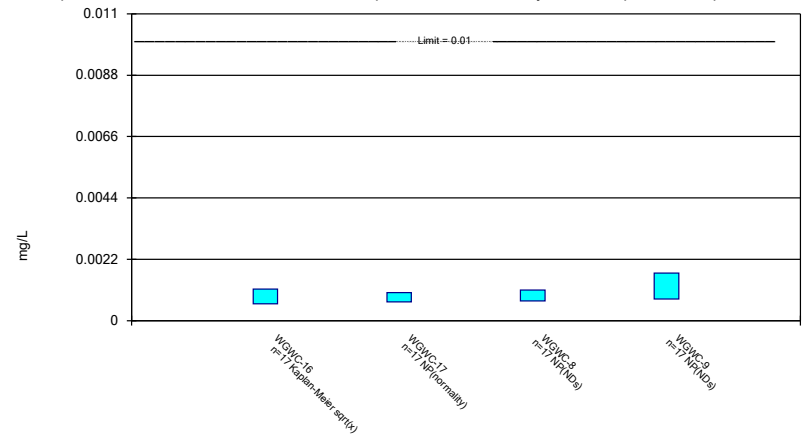
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Constituent: Arsenic Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

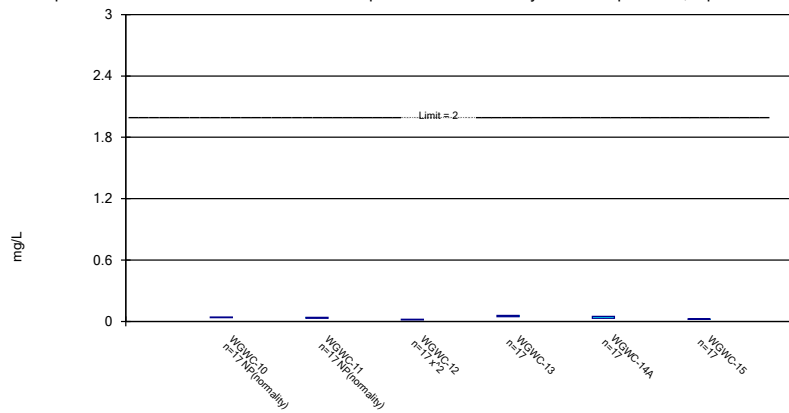
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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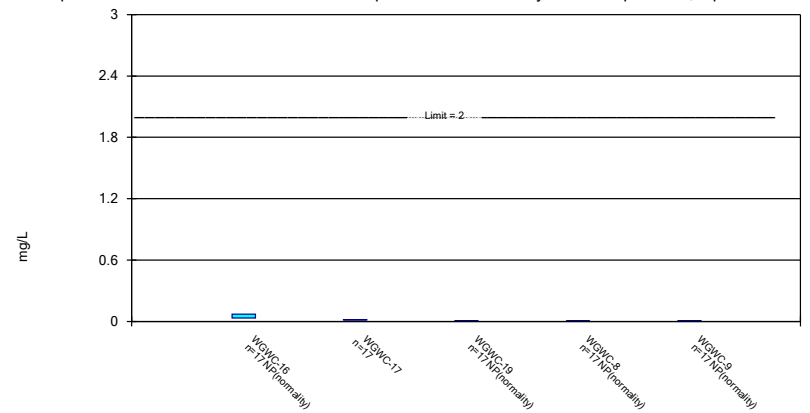
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Parametric and Non-Parametric (NP) Confidence Interval

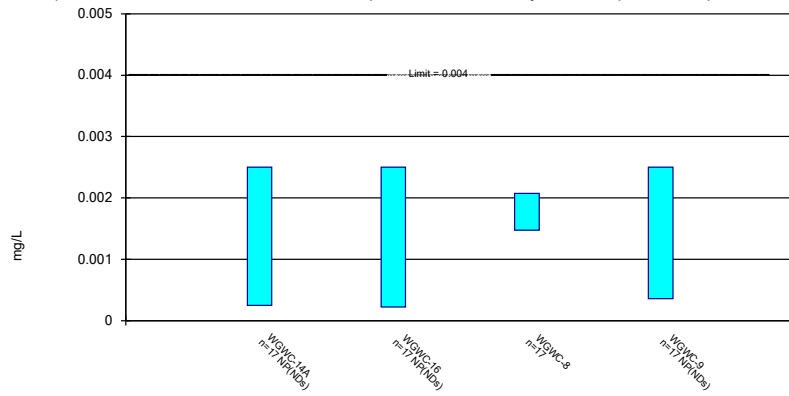
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

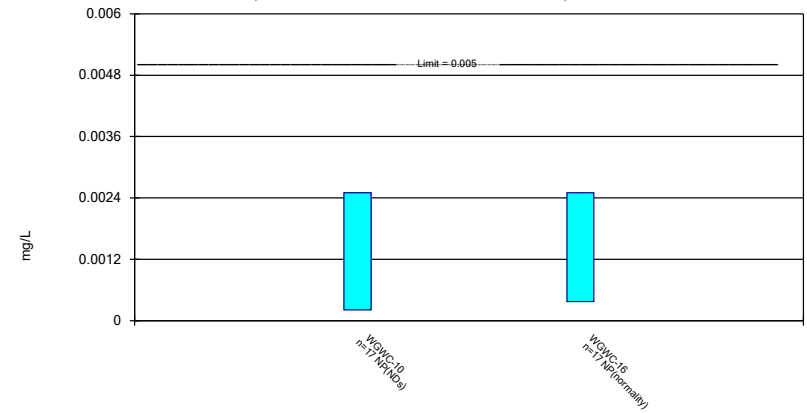
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Constituent: Beryllium Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

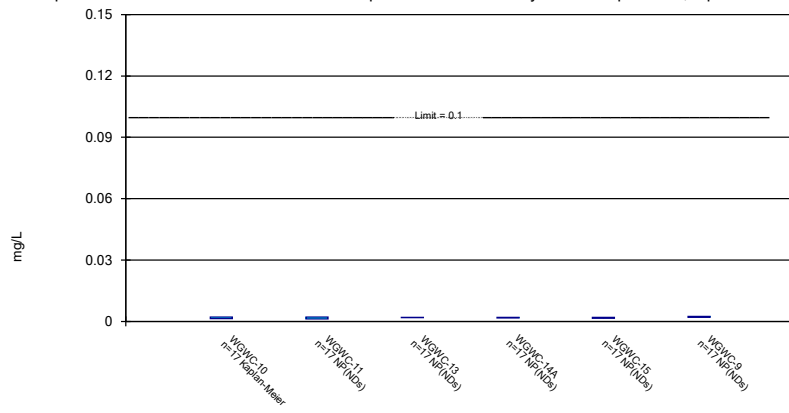
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Constituent: Cadmium Analysis Run 1/8/2021 10:30 AM View: Appendix IV
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Parametric and Non-Parametric (NP) Confidence Interval

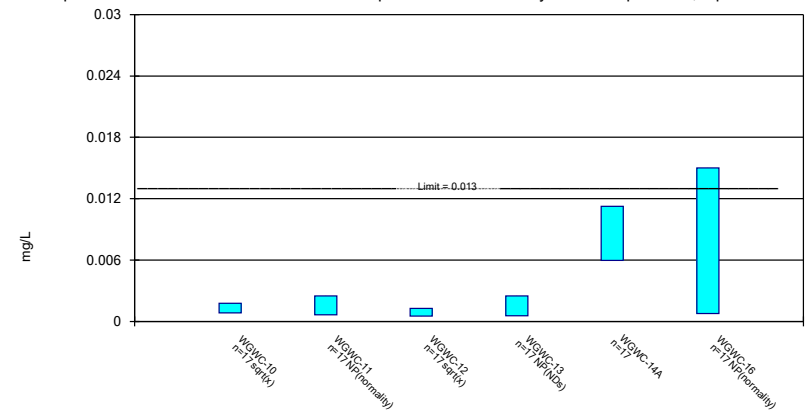
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Parametric and Non-Parametric (NP) Confidence Interval

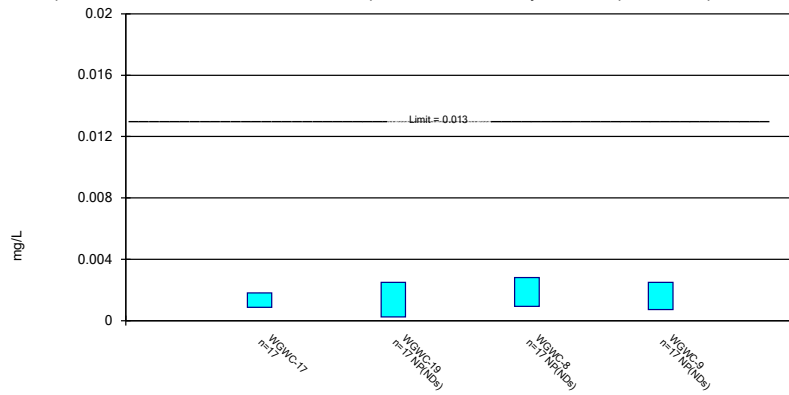
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

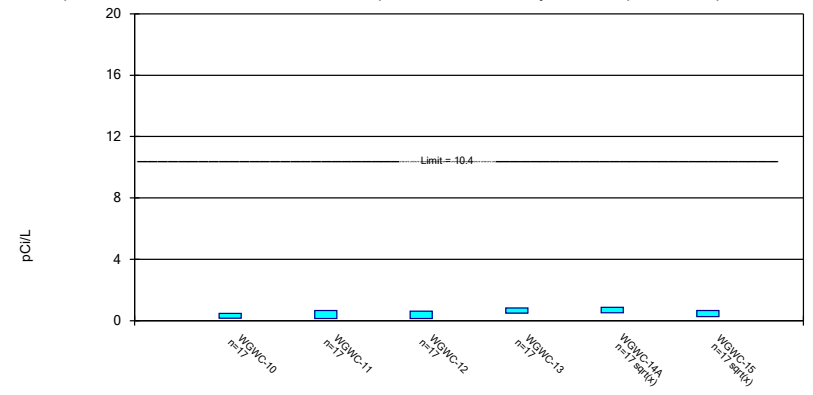
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

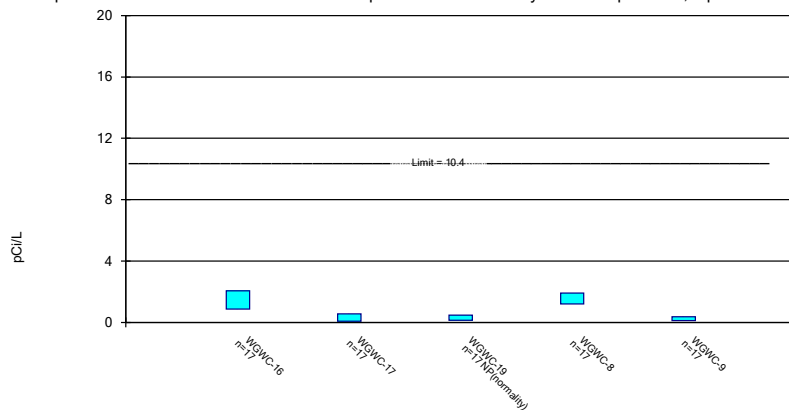
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Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

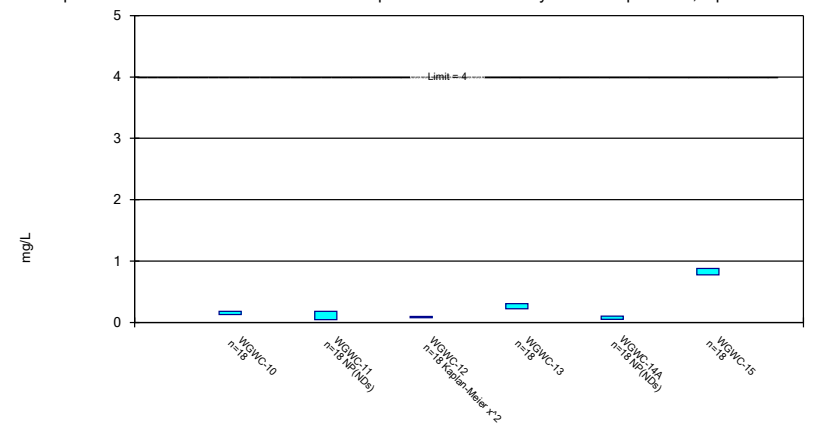
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

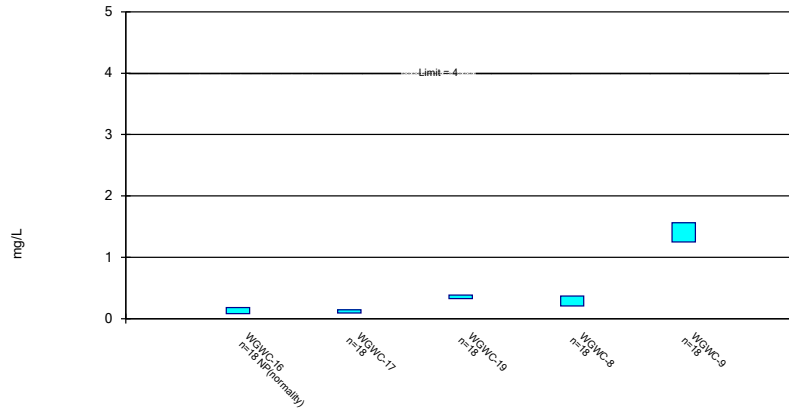
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

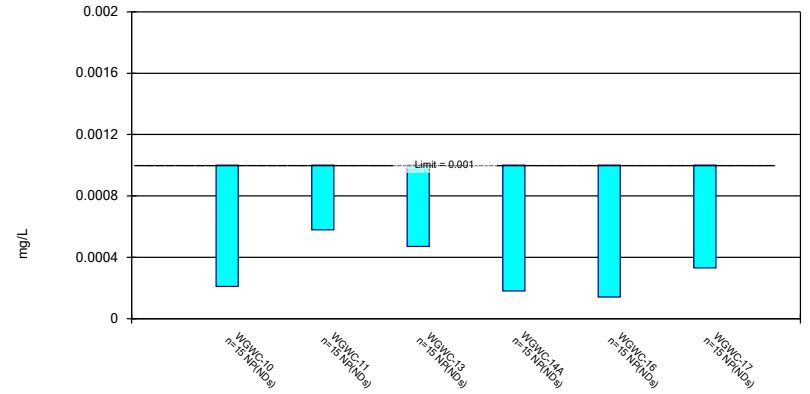
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Constituent: Fluoride Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

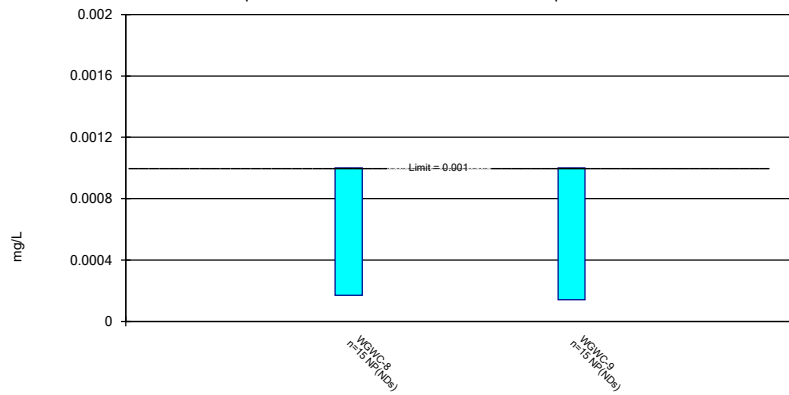
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Constituent: Lead Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

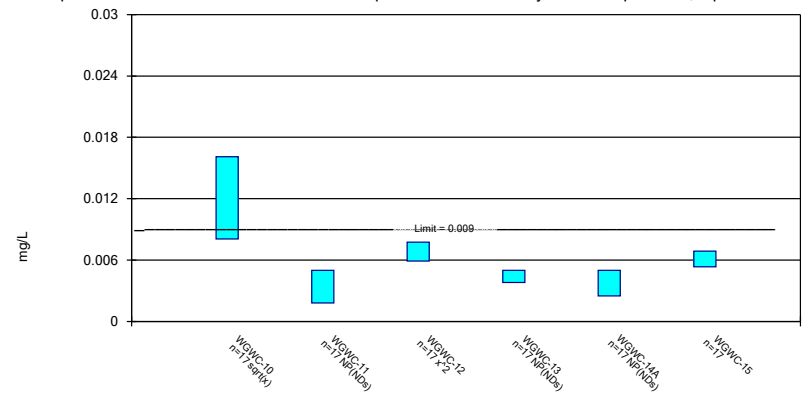
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Constituent: Lead Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

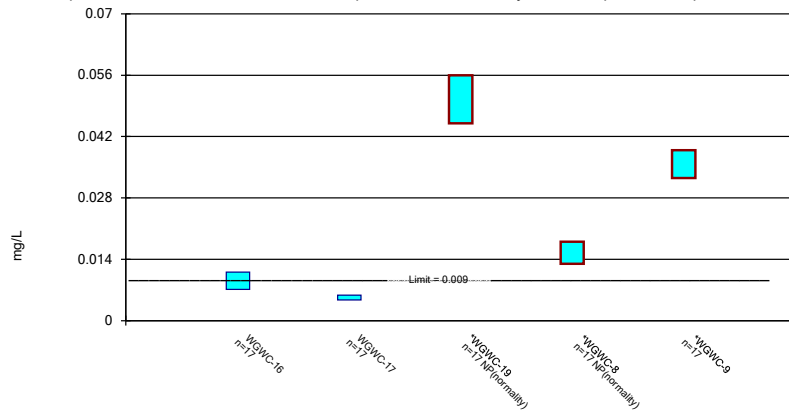
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Constituent: Lithium Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

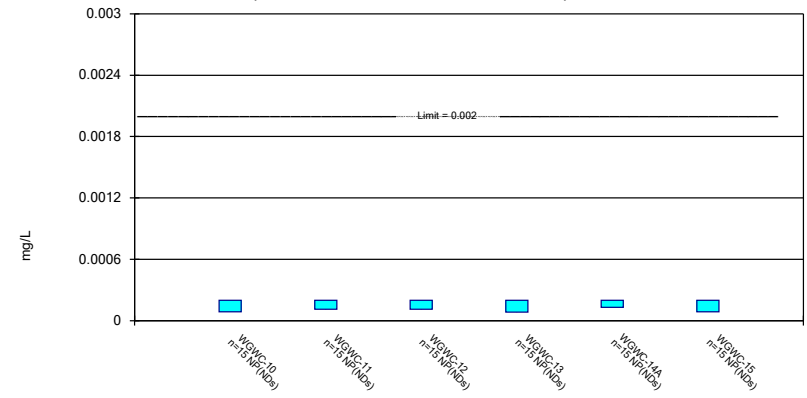
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

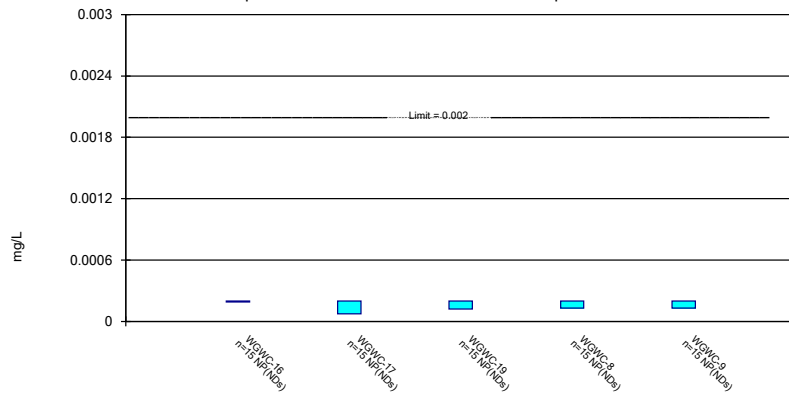
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

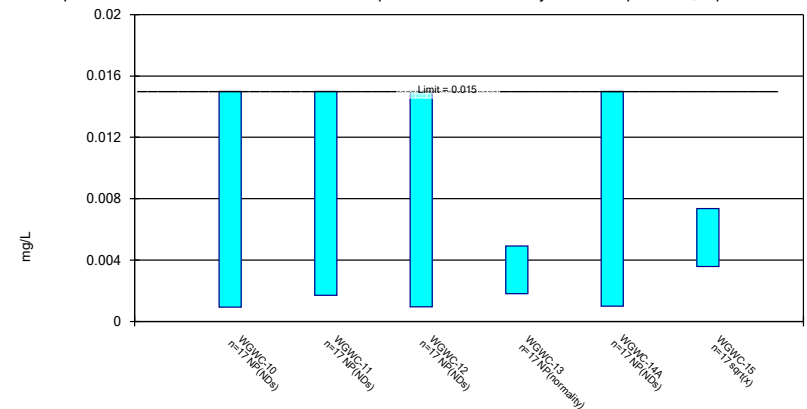
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

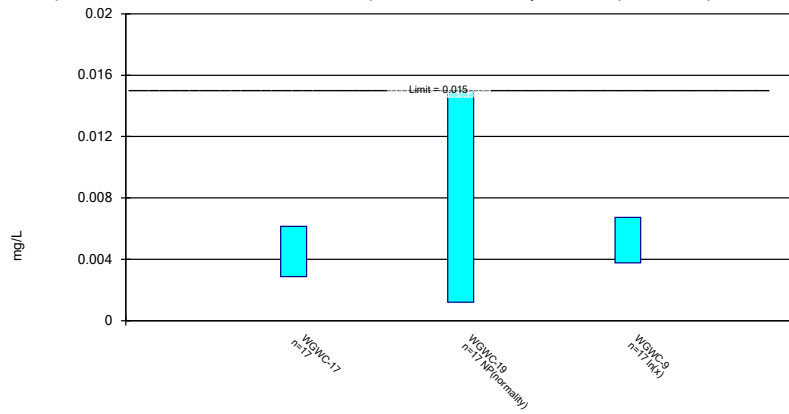
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Constituent: Molybdenum Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

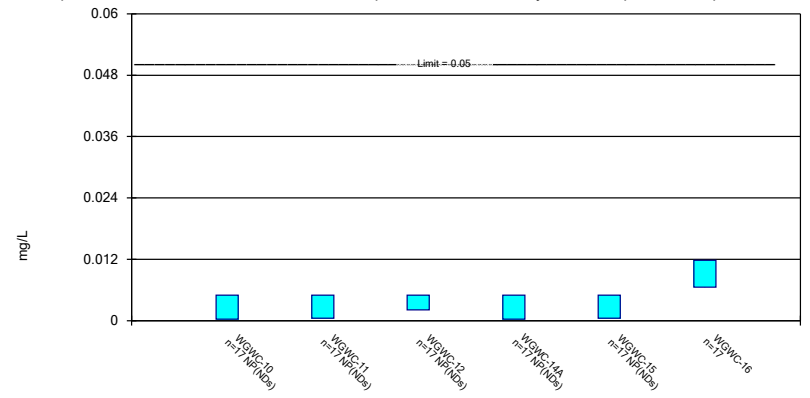
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Constituent: Molybdenum Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

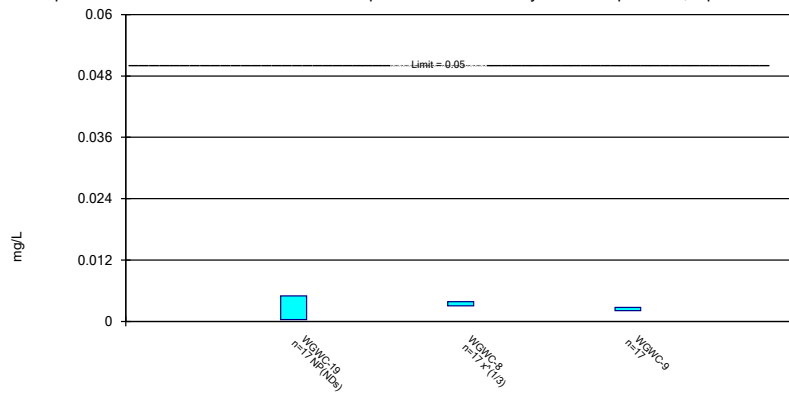
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

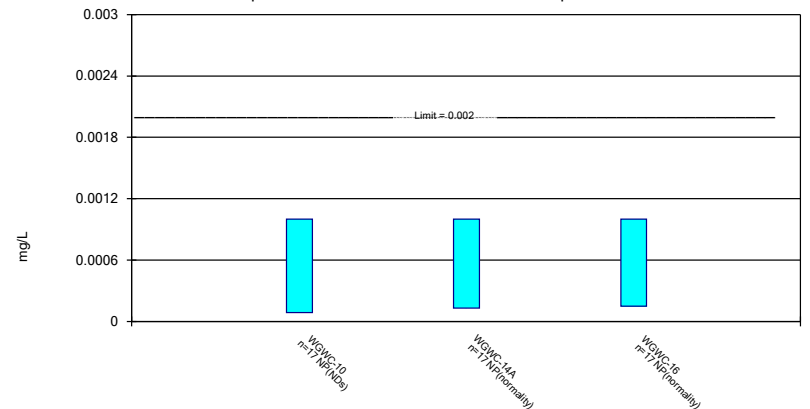
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 1/8/2021 10:30 AM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

APPENDIX F

November 2020 Alternate Source
Demonstration (ASD) Addendum
Plant Wansley Ash Pond 1 (AP-1)
Georgia Power Company



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

**ALTERNATE SOURCE
DEMONSTRATION ADDENDUM—
LITHIUM
PLANT WANSLEY ASH POND 1 (AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW7327

November 2020



ALTERNATE SOURCE DEMONSTRATION ADDENDUM – LITHIUM

Plant Wansley
Ash Pond 1 (AP-1)

November 30, 2020

A handwritten signature in black ink that reads "Herwig Goldmund".

Herwig Goldmund, Ph.D.
Senior Scientist

A handwritten signature in blue ink that reads "Adria Reimer".

Adria Reimer, P.G.
Project Manager

Certification Statement

**Alternate Source Demonstration Addendum – Lithium
Plant Wansley
Ash Pond 1 (AP-1)
November 30, 2020**

I hereby certify that the facts used to prepare this Alternate Source Demonstration Addendum for Georgia Power Company – Plant Wansley Ash Pond 1 are accurate pursuant to the requirements stipulated in 40 CFR 257.95(g)(3)(ii) and Georgia regulations stipulated in Rule 391-3-4-.10(6) of the Georgia Administrative Code, which incorporates 40 CFR 257.95(g)(3)(ii) by reference.



A handwritten signature in cursive script that reads "Whitney B. Law".

Seal and Signature

11/30/2020

Date

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LIST OF ACRONYMS

AP	Ash Pond
ASD	Alternate Source Demonstration
CCR	Coal Combustion Residual
CFR	Code of Federal Regulations
GA EPD	Environmental Protection Division
GWPS	Groundwater Protection Standard
K_d	distribution coefficient
mg/kg	milligram per kilogram
mg/L	milligram per liter
PWR	partially weathered rock
SEP	sequential extraction procedure
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

1. INTRODUCTION

1.1 Background and Purpose

This document presents an addendum to the alternate source demonstration (ASD) provided in the *2018 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company – Plant Wansley – Ash Pond 1 (AP-1)* (ACC, 2019) for the statistically significant levels (SSLs) of lithium detected in compliance groundwater monitoring wells located at Georgia Power Company’s (Georgia Power’s) Plant Wansley (the Site) Ash Pond 1 (AP-1). Based on lithium SSLs identified in several wells during the 2018 reporting year, the 2018 ASD presented evidence that the source of lithium in groundwater was naturally derived from subsurface rock formations and did not originate from AP-1. Since submittal of the 2018 ASD, supplemental data have been collected which provide additional evidence of the natural occurrence of lithium in rock units at AP-1. The supplemental data presented in this ASD Addendum support the conclusions provided in the 2018 ASD.

AP-1 is currently regulated by the Georgia Environmental Protection Division (GA EPD) in accordance with Georgia Rules for Solid Waste Management 391-3-4-.10. The unit is also subject to the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257 Subpart D. The 2018 ASD and this ASD Addendum have been prepared pursuant to Rule 391-3-4-.14(30)(e) of the Georgia Administrative Code, which states that “the owner or operator may demonstrate that a source other than a MSWLF (municipal solid waste landfill) unit caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.” This language is consistent with the requirements of the Federal CCR Rule stipulated in 40 CFR 257.95(g)(3), which has been incorporated by reference into Rule 391-3-4-.10(23)(c) of the Georgia Administrative Code.

1.2 Basis of the Evaluation of Statistically Significant Level Exceedances

In accordance with § 257.95(h)(2)(iii), the federal groundwater protection standard (GWPS) for lithium at AP-1 is 0.040 milligrams per liter (mg/L). In accordance with the GA EPD CCR Rule, the state GWPS for lithium is the background concentration, which has been established at 0.009 mg/L. Statistical analysis of Appendix IV data identified lithium concentrations at SSLs above established state and/or federal GWPS in certain compliance wells at AP-1, as documented in reports previously submitted to GA EPD and summarized below.

Assessment Event	GWPS Exceedance for Lithium	Compliance Well			
		WGWC-8	WGWC-9	WGWC-10	WGWC-19
June 2018 ⁽¹⁾	Federal				X
	State	X	X	X	X
September 2018 ⁽¹⁾	Federal				X
	State	X	X	X	X
April 2019 ⁽²⁾	Federal				X
	State	X	X	X	X
September 2019 ⁽²⁾	Federal				X
	State	X	X		X
March 2020 ⁽³⁾	Federal				X
	State	X	X		X

Notes:

- (1) 2018 Annual Groundwater Monitoring and Corrective Action Report (ACC, 2019)
- (2) 2019 Annual Groundwater Monitoring and Corrective Action Report (ACC, 2020)
- (3) 2020 Semiannual Groundwater Monitoring and Corrective Action Report (Geosyntec, 2020)

Decreasing lithium concentrations detected at WGWC-10 reduced the lower confidence interval to below the state GWPS of 0.009 mg/L following the second semiannual groundwater assessment event in September 2019, thereby no longer identifying an SSL of lithium at this compliance well.

1.3 Summary of 2018 ASD

As detailed in the 2018 ASD, the lithium SSLs reported for wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19, located southeast and south of AP-1 are not associated with a release from the ash pond (**Figure 1**). The source of lithium in the groundwater at these locations is naturally derived from the subsurface rock units present southeast and south of AP-1. Various lines of evidence supporting this conclusion were presented in the 2018 ASD. Key points are summarized below.

- There are several lithologic units present at AP-1, with rock units north and northwest of AP-1 differing from those southeast and south of the ash pond. Correspondingly, the lithium groundwater concentrations originating from natural geologic sources are expected to vary spatially across the Site with changing geologic units.

- Laboratory analysis of rock samples collected from locations southeast and south of AP-1 within or adjacent to the schist-amphibolite rock unit indicated naturally occurring lithium concentrations ranging from approximately 40 milligrams per kilogram (mg/kg) to 116 mg/kg.
- Boron is an Appendix III constituent commonly used as a tracer to indicate CCR impacts to groundwater downgradient of a CCR unit. Groundwater data for sampling events conducted in 2016 and 2017 indicated no correlation between boron and lithium groundwater concentrations for select compliance wells.
- The lack of boron detections and low concentrations of other CCR indicator parameters (Appendix III constituents) at WGWC-19, the well with the highest lithium detections in groundwater, further indicated that lithium in groundwater did not originate from a release of AP-1. In fact, the highest concentrations of lithium in rock core samples collected in support of the 2018 ASD were reported in the schist-amphibolite samples collected at WGWC-19.

1.4 Summary of ASD Addendum

This ASD Addendum provides supplemental groundwater and rock sample laboratory analytical data collected since submittal of the 2018 ASD. The data support the conclusions of the 2018 ASD, specifically:

- Lithium concentrations detected at WGWC-10 have shown a decreasing trend since 2016, resulting in a reduction of the statistically derived lower confidence interval to below the state GWPS of 0.009 mg/L, thereby no longer identifying an SSL for lithium at this compliance well.
- This ASD Addendum includes an evaluation of the correlation between lithium and Appendix III constituents using groundwater data from compliance monitoring well samples collected between 2016 and 2020. Results indicate that there is no statistically significant positive correlation between lithium and boron at WGWC-9, and that there is a statistically significant negative correlation between boron and lithium at WGWC-8, indicating that these constituents are from different sources. Non-detect to intermittent low detections of boron consistent with background conditions at wells WGWC-10 and WGWC-19 further support an alternate source for lithium in groundwater.
- Laboratory analyses of rock core samples collected from locations with lithium SSLs and from locations in proximity to locations with lithium SSLs indicate

substantial total concentrations of naturally occurring lithium in the rock, with lithium concentrations ranging from 17 mg/kg (WGWC-8 and PB-3) to 130 mg/kg (PB-7).

- Laboratory analyses using sequential extraction procedures (SEPs) for rock core samples collected from boreholes corresponding to or in vicinity of wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 indicate lithium in rock cores is mostly associated with hydroxides of iron, manganese and/or aluminum as well as more recalcitrant fractions that will liberate lithium through mineral weathering.
- Using a literature-derived distribution coefficient (K_d) of 300 liters per kilogram (L/kg) to calculate predicted groundwater concentrations of lithium based on lithium concentrations in rock indicates that observed groundwater concentrations, which are generally lower than predicted concentrations, can be explained by lithium originating from weathering of the natural formation.

1.5 Site Setting

AP-1 is located in the Piedmont Physiographic Province of western Georgia, which is characterized by gently rolling hills and narrow valleys with locally pronounced linear ridges, trending northeast-southwest, and separated by valleys. Geologic mapping performed by Golder (2015) and revised by Geosyntec (2018) indicates that the Site is underlain by schist, amphibolite, gneiss, and quartzite. AP-1 is underlain primarily by five lithologic units; (i) CCR material, (ii) alluvial deposits (iii) saprolite, (iv) partially weathered rock (PWR), and (v) metamorphic crystalline bedrock.

While the aquifer characteristics of each lithologic unit may vary, the groundwater is interconnected between these units, and they effectively act as one, unconfined aquifer. According to previous investigations, the potentiometric surface is a subdued reflection of the topography. The top of rock surface also generally follows topography and likely controls groundwater flow direction in the uppermost aquifer, which occurs within the saprolite and PWR and is hydraulically connected to the bedrock via fractures and deeply weathered areas of the rock. Recharge is by precipitation infiltrating through the saprolite to the bedrock.

Additional information regarding the geologic and hydrogeologic setting of AP-1 is available in reports previously submitted to GA EPD, including semiannual groundwater monitoring and corrective action reports for AP-1 submitted in 2017, 2018, 2019, and

2020, and the *Hydrogeologic Assessment Report (Revision 1)* submitted in November 2019 (Geosyntec, 2019).

2. ALTERNATE SOURCE DEMONSTRATION

Based on review of Site information, the SSLs for lithium at monitoring wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 are not related to a release from AP-1 but are instead caused by naturally occurring lithium present in rock units at AP-1. The following sections present information supporting this conclusion.

2.1 Lack of Correlation Between Lithium and Indicator Parameters

The 2018 ASD included an evaluation of the correlation between boron and other Appendix III constituents for groundwater samples collected between 2016 and 2017 to assess the potential for AP-1 to be the source of lithium in groundwater at AP-1. The assessment was completed by analysis of Pearson correlation coefficients. Highly positive correlations (i.e., correlation coefficient r near 1.0) may indicate that two parameter sets are from a common influence, while statistically non-significant low correlations or negative r values indicate that the occurrence of two parameters are unrelated or potentially from different sources. Results indicated that while boron had a positive correlation with some other Appendix III constituents at individual wells, lithium did not significantly correlate with boron and/or showed a negative correlation between these two constituents, suggesting potentially different sources for boron and lithium in groundwater.

This ASD Addendum expands upon the evaluation by inclusion of groundwater data collected after submittal of the 2018 ASD to provide an update to the correlation coefficient analyses. As shown in **Table 1**, potential correlations between boron and other Appendix III constituents, and between lithium and Appendix III constituents, were evaluated for WGWC-8, WGWC-9, WGWC-10, and WGWC-19. To summarize data presented in **Table 1**:

- WGWC-8: Boron shows a statistically significant negative correlation with lithium and positive correlations with calcium and TDS. Lithium does not show a statistically significant correlation with Appendix III constituents. This suggests a common source of boron, calcium, and TDS, but a different source for lithium in this well.
- WGWC-9: Boron does not statistically correlate with lithium but does show statistically significant positive correlations with calcium, sulfate, and TDS and a negative correlation with fluoride. Lithium does not correlate at a statistically significant level with Appendix III constituents. Similar to WGWC-8, this

suggests a common source of boron, calcium, sulfate and TDS, but different sources for lithium and fluoride in this well.

- WGWC-10: Due to insufficient detections of boron, no correlation analyses could be completed for this constituent to other Appendix III constituents or lithium. Lithium shows statistically significant positive correlations with fluoride and sulfate. This suggests a common source for these constituents in this well. Given that boron concentrations were mostly non-detect and/or consistent with background conditions, and concentrations of fluoride and sulfate were very low (and much lower compared to other wells), this common source of constituents in this well is likely derived from weathering/dissolution of the natural formation.
- WGWC-19: Similar to WGWC-10, due to insufficient detections of boron, no correlation analyses could be completed for this constituent to other Appendix III constituents or lithium. Lithium shows a statistically significant positive correlation with sulfate but no other Appendix III constituents. Again, this suggests a common source for lithium and sulfate, which is likely the natural formation due to low concentrations of sulfate and mostly non-detect concentrations of boron.

If AP-1 were the source of lithium at these locations, particularly at WGWC-19 (the location with the highest lithium concentrations in groundwater), elevated detections of boron in groundwater would be expected, and statistically significant positive correlations should exist between lithium and boron. Furthermore, with the exception of well WGWC-8, there are no statistically significant increases of Appendix III constituents in these wells. The statistically significant negative correlation between boron and lithium in well WGWC-8 suggests that lithium is not derived from AP-1.

2.2 Laboratory Analytical Results of Rock Samples

As part of the 2018 ASD demonstration, twelve rock core samples from drilling investigations previously completed at AP-1 were selected from a range of lithologies for laboratory analyses of total metals. As summarized in Table 2 of the 2018 ASD, lithium concentrations were higher in samples of the schist-amphibolite unit at AP-1 compared to other site lithologies.

Additional rock cores were retrieved from Georgia Power's storage facility in 2020 and submitted for laboratory analyses of total lithium and, at the request of GA EPD, cores were also subjected to a SEP for lithium. Core samples from the approximate well screen intervals of WGWC-8 and WGWC-19 were available and selected for total lithium and

SEP analysis. A core sample from PB-8, obtained from the same lithologic formation as WGWC-19, was also selected. Core samples from WGWC-9 and WGWC-10 were not available. However, rock cores from the drilling of PB-3 and PB-4, located in proximity to and installed in the same lithologic formation as WGWC-9, were available, and samples from the approximate screen interval of WGWC-9 were collected and submitted for laboratory analyses. Core samples from PB-7, located in proximity to and installed in the same lithologic formation as WGWC-10 were available. A PB-7 core sample from the approximate well screen interval of WGWC-10 was collected and submitted for analysis. The locations where rock cores were collected are shown on **Figure 2**. Boring logs for locations where rock cores were collected are provided in **Appendix A** for reference.

Rock cores were shipped under chain-of-custody protocol to the Eurofins TestAmerica Laboratory in Canton, Ohio, for rock core sample preparation prior to shipment to the Eurofins TestAmerica Laboratory in Knoxville, Tennessee, for total and SEP analyses of lithium. Upon receipt at the laboratory in Canton, each core sample was crushed to achieve a particle size of less than 10 millimeters (mm) and the sample was homogenized. The crushed samples were then shipped to the Knoxville laboratory for analyses.

A 1-gram (g) portion of each sample was digested using hydrofluoric acid, nitric acid, and boric acid, and subsequently analyzed by USEPA Method 6010B for total lithium. To perform SEP analyses, an aliquot of each sample was sequentially extracted through a series of seven steps to remove lithium from specific solid-associated phases using progressively stronger reagents to solubilize metals from increasingly recalcitrant phases. Details of the reagents and digestion method used at each step are provided in **Table 2**, and in the Eurofins TestAmerica laboratory analytical reports provided in **Appendix B**. Laboratory analytical results of the ten core samples analyzed for total lithium and lithium by SEP in 2020 are provided in **Table 3**.

As a first step to evaluate data quality in an SEP analysis, a comparison of the total concentrations of a metal with the sum of the individual extraction steps should be made. While not expected to be exactly the same, these results should be consistent with each other. As can be seen in **Table 3**, the totals analyses for lithium and the sum of lithium from extraction steps 1 through 7 match very well, indicating good metal recovery in the SEP steps and data quality.

Total lithium concentrations in these cores ranged from 17 mg/kg to 130 mg/kg, indicating substantial concentrations of naturally occurring lithium, which is consistent with the findings presented in the 2018 ASD. In addition, little to no lithium was recovered in the first three extractions steps, which include the Exchangeable Phase (Step

1), the Carbonate Phase (Step 2), and the Non-Crystalline Materials Phase (Step 3). This is not surprising given that these mineral phases are either not present at the Site (i.e., carbonates) and that lithium does not readily sorb to these mineral phases. Extraction Step 4 (Metal Hydroxide Phase) was the first step to liberate substantial levels of lithium, suggesting that some naturally occurring lithium can go into solution through weathering/dissolution of hydroxides of iron, manganese, and/or aluminum. Extraction Step 5 (Organic Phase) yielded some detectable concentrations of lithium, but generally at lower levels compared to Step 4. This suggests that relatively little lithium is associated with organic phases in these samples. This is also not surprising given that little to no organic matter would be expected in these rock core samples. The bulk of the total lithium was leached in Steps 6 (Acid/Sulfide Fraction) and 7 (Residual Fraction), indicating a fairly recalcitrant fraction of lithium that can only be liberated through weathering of the rock/mineral matrix containing the lithium.

The SEP results suggest that lithium in rock cores is mostly associated with hydroxides of iron, manganese and/or aluminum as well as the refractory fractions that will liberate lithium through mineral weathering. The association of lithium in these fractions strongly suggests a natural occurrence of lithium in the mineral fraction and that weathering of lithium-bearing minerals releases lithium to groundwater at the Site.

2.3 Natural Variation of Groundwater Quality

Based on the lack of correlations between lithium and Appendix III parameters described in Section 2.1 and the presence of substantial concentrations of total lithium of up to 130 mg/kg in rock cores at the Site analyzed in 2020, it is apparent that lithium found in groundwater at the Site is likely derived from natural sources. Site-specific lithium concentrations in rock cores are substantially higher than mean lithium concentrations of about 17 mg/kg found in soils and regoliths from the Eastern United States (Shacklette et al., 1973) and higher than the upper concentration range of 60 mg/kg found in soils of the Georgia Piedmont (Anderson et al., 1988). Further, as presented in the 2018 ASD, site-specific lithium concentrations in rock cores are higher than those reported as naturally occurring in earth's crust (Taylor, 1964; Turekian and Wedepohl, 1961).

To further evaluate whether these naturally elevated lithium concentrations in rock cores could explain the lithium concentrations found in groundwater, theoretical groundwater lithium concentrations were calculated. To do that, site-specific total lithium concentrations in rock cores were divided by a literature-derived K_d of 300 L/kg for lithium (Baes et al., 1984). The resulting predicted groundwater concentrations were compared with actual groundwater concentrations found in wells associated with these rock samples. The results are summarized in **Table 4**.

As can be seen in **Table 4**, the calculated (i.e., predicted) groundwater concentrations based on total lithium concentrations in individual rock cores and using a K_d of 300 L/kg ranged from 0.057 mg/L to 0.433 mg/L, and were consistently higher than the observed groundwater concentrations in the four wells of interest, which ranged from 0.0071 mg/L in WGWC-10 to 0.049 mg/L in WGWC-19 during the March 2020 sampling event. This was especially pronounced in rock cores with higher lithium concentrations that overpredicted groundwater lithium concentrations by a factor of up to 60 in boring PB-7. This suggests that lithium concentrations observed in site-specific groundwater can be explained by naturally occurring lithium in rock cores. The overprediction of groundwater concentrations indicates that site-specific K_d values are variable and much higher than 300 L/kg, which is consistent with the SEP results that showed a substantial portion of lithium bound to recalcitrant mineral phases that require weathering of the minerals within the rock matrix to liberate lithium. In summary, lithium concentrations in Site groundwater reflect natural variations of groundwater quality through groundwater interactions with the rock formations.

3. CONCLUSIONS

Based on the information presented in the 2018 ASD and this ASD Addendum, the lithium SSLs reported in the *2018 Annual Groundwater Monitoring and Corrective Action Report*, the *2019 Annual Groundwater Monitoring and Corrective Action Report*, and the *2020 Semiannual Groundwater Monitoring and Corrective Action Report* are not attributed to a release from AP-1 at the Site. Furthermore, subsequent to the second semiannual groundwater assessment event in 2019, lithium concentrations in well WGWC-10 no longer constitute an SSL for lithium in this well. The following lines of evidence demonstrate that the SSLs are likely the result of natural variation in groundwater quality due to naturally occurring lithium in rock units southeast and south of the Site and not a release from AP-1:

- Lack of Correlation Between Lithium and Boron:
 - Where detected (i.e., in wells WGWC-8 and WGWC-9), boron either does not show a correlation with lithium (WGWC-9), or it is negatively correlated (WGWC-8), suggesting different sources for boron and lithium. Groundwater samples from wells WGWC-10 and WGWC-19 are either non-detect for boron or have low-level estimated concentrations consistent with background conditions.
 - The lack of boron detections and low concentrations of other CCR indicator parameters at WGWC-19, the well with the highest lithium detections in groundwater, further indicates that lithium in groundwater does not originate from a release of AP-1.
- Rock Core Samples:
 - Rock cores representative of the screened intervals of wells showing lithium SSLs contain lithium ranging from 17 mg/kg to 130 mg/kg indicating a significant source of lithium, above average crustal abundance, in the subsurface formations.
 - A seven-step sequential extraction of rock cores representative of the screened intervals of wells showing lithium SSLs indicate that lithium is associated with the hydroxide-phases of iron, manganese and/or aluminum, and the refractory fraction. This supports a natural occurrence of lithium in the mineral fraction that can be released to groundwater through mineral weathering.

- Natural Variation of Groundwater Conditions:
 - Using the results from the total lithium analyses, predicted groundwater concentrations were calculated using a literature-derived K_d value of 300 L/kg for lithium. The predicted groundwater results were consistently higher than the observed groundwater concentrations, suggesting that the lithium detected in these groundwater locations can be explained by naturally occurring lithium from weathering of the formation.

Plant Wansley AP-1 will remain in assessment monitoring and assessment of corrective measures is not required. Assessment monitoring results will continue to be presented in Annual and Semiannual Groundwater Monitoring and Corrective Action Reports. A copy of the ASD Addendum will be provided as an appendix to the 2020 Annual Groundwater Monitoring and Corrective Action Report due to GA EPD in January 2021.

4. REFERENCES

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TABLES

Table 1
Lithium and Appendix III Concentrations in Groundwater and Pearson's Correlation Coefficients
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

WGWC-8							
	Boron	Lithium	Calcium	Chloride	Fluoride	Sulfate	TDS
5/19/2016	1.42	0.0215	31.4	17.5	0.304	146	311
7/20/2016	1.4	0.0260	28	19	0.27	150	290
9/15/2016	1.2	0.0570	27	19	0.24	140	270
11/14/2016	1.3	0.0170	32	25	0.2	160	320
2/6/2017	1.8	0.0120	41	33	0.27	180	330
3/15/2017	1.7	0.0140	38	38	0.25	170	370
4/26/2017	2	0.0091	39	42	0.31	180	380
8/10/2017	1.8	0.0130	53	48	0.37	180	380
10/12/2017	1.8	0.0180	60	60	0.35	180	450
6/14/2018	1.7	0.0150	52	58	0.56	170	410
10/4/2018	1.9	0.0130	65	300	0.27	780	520
4/3/2019	1.7	0.0150	61	70	0.5	180	430
9/19/2019	1.7	0.0140	57	70	0.42	190	440
3/19/2020	2.2	0.0150	79	98	0.057	200	540
Pearson's Correlation Coefficient (r) - Boron		-0.68	0.78	0.46	-0.08	0.31	0.81
p-value		0.0079	0.0009	0.1017	0.7891	0.2774	0.0005
Pearson's Correlation Coefficient (r) - Lithium			-0.47	-0.27	-0.19	-0.21	-0.52
p-value			0.0912	0.3509	0.5237	0.4788	0.0554

Notes:

- (1) Results reported in milligrams per liter (mg/L)
- (2) Pearson's correlation coefficients for boron at WGWC-10 and WGWC-19 cannot be calculated due to insufficient boron detections.
- (3) Positive correlations are shown in black font. Negative correlations are shown in red font.
- (4) Statistically significant correlations are bold. p-value ≤ 0.05 indicate the correlation is statistically significant.

TDS = Total dissolved solids

ND = Not detected at the laboratory method detection limit (MDL)

Table 1
Lithium and Appendix III Concentrations in Groundwater and Pearson's Correlation Coefficients
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

WGWC-9							
	Boron	Lithium	Calcium	Chloride	Fluoride	Sulfate	TDS
5/19/2016	0.314	0.0335	8.53	1.46	1.58	35.9	134
7/20/2016	0.25	0.024	8.2	1.5	2.0	37	120
9/14/2016	0.3	0.039	8.8	1.4	1.8	39	140
2/9/2017	0.61	0.04	10	1.5	1.3	60	180
3/15/2017	0.42	0.035	8.6	1.3	1.3	44	160
4/11/2017	0.37	0.034	8.6	1.2	1.4	36	120
4/26/2017	0.38	0.029	7.1	1.2	1.5	37	140
8/10/2017	0.29	0.038	7.5	1.3	1.6	38	130
10/12/2017	0.36	0.048	8.2	1.4	1.5	37	120
6/14/2018	0.39	0.034	7.5	1.2	1.4	37	120
10/4/2018	0.37	0.039	8.0	1.2	1.4	38	140
4/3/2019	0.35	0.035	7.2	2.0	1.3	41	120
9/19/2019	0.39	0.036	8.1	1.5	1.3	42	130
3/19/2020	0.55	0.039	9.3	2.1	1.0	45	160
Pearson's Correlation Coefficient (r) - Boron		0.35	0.62	0.32	-0.78	0.83	0.79
p-value		0.2155	0.0173	0.2607	0.0011	0.0002	0.0009
Pearson's Correlation Coefficient (r) - Lithium			0.32	0.10	-0.39	0.27	0.22
p-value			0.2697	0.7286	0.1627	0.3535	0.4520

Notes:

- (1) Results reported in milligrams per liter (mg/L)
 - (2) Pearson's correlation coefficients for boron at WGWC-10 and WGWC-19 cannot be calculated due to insufficient boron detections.
 - (3) Positive correlations are shown in black font. Negative correlations are shown in red font.
 - (4) Statistically significant correlations are bold. p-value ≤ 0.05 indicate the correlation is statistically significant.
- TDS = Total dissolved solids
ND = Not detected at the laboratory method detection limit (MDL)

Table 1
Lithium and Appendix III Concentrations in Groundwater and Pearson's Correlation Coefficients
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

WGWC-10							
	Boron	Lithium	Calcium	Chloride	Fluoride	Sulfate	TDS
5/18/2016	ND	0.0320	7.17	1.45	0.206	2.84	70
7/20/2016	ND	0.0210	7	1.6	0.23	2.8	42
9/14/2016	ND	0.0200	7.7	1.5	0.17	2.8	40
11/11/2016	ND	0.0170	8.2	1.5	0.14	2.6	72
2/6/2017	ND	0.0160	9.1	1.4	0.15	2.7	24
3/15/2017	0.032	0.0140	9	1.4	0.16	2.7	78
4/26/2017	ND	0.0110	8.1	1.3	0.17	2.5	48
8/10/2017	ND	0.0110	8.1	1.4	0.2	2.2	38
10/12/2017	ND	0.0160	8.6	1.3	0.14	1.9	72
6/14/2018	ND	0.0084	7.7	1.3	0.15	2	40
10/4/2018	ND	0.0085	8.5	1.3	0.18	1.9	60
4/4/2019	0.024	0.0059	7.9	1.4	0.13	2.2	30
9/19/2019	ND	0.0075	7.5	1.5	0.13	2.1	52
3/18/2020	0.049	0.0071	7.5	1.5	0.052	2.1	58
Pearson's Correlation Coefficient (r) - Boron							
p-value							
Pearson's Correlation Coefficient (r) - Lithium			-0.24	0.35	0.57	0.73	0.28
p-value			0.4172	0.2217	0.0349	0.0029	0.3346

Notes:

- (1) Results reported in milligrams per liter (mg/L)
- (2) Pearson's correlation coefficients for boron at WGWC-10 and WGWC-19 cannot be calculated due to insufficient boron detections.
- (3) Positive correlations are shown in black font. Negative correlations are shown in red font.
- (4) Statistically significant correlations are bold. p-value ≤ 0.05 indicate the correlation is statistically significant.

TDS = Total dissolved solids

ND = Not detected at the laboratory method detection limit (MDL)

Table 1
Lithium and Appendix III Concentrations in Groundwater and Pearson's Correlation Coefficients
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

WGWC-19							
	Boron	Lithium	Calcium	Chloride	Fluoride	Sulfate	TDS
---	---	---	---	---	---	---	---
11/11/2016	ND	0.0450	12	2.6	0.32	3.4	98
2/6/2017	ND	0.0500	11	2.6	0.45	3.7	36
3/15/2017	ND	0.0520	10	2.4	0.37	3.6	120
4/11/2017	ND	0.0480	11	2.3	0.37	3.2	68
4/26/2017	ND	0.0440	8.4	2.3	0.4	3.3	76
6/7/2017	ND	0.0470	9	2.5	0.35	3.8	74
7/11/2017	ND	0.0450	9.5	2.3	0.39	3.3	70
8/10/2017	ND	0.0560	8.8	2.5	0.42	3.7	66
6/14/2018	ND	0.0480	8.9	2.4	0.35	3.5	74
10/4/2018	ND	0.0620	10	2.6	0.35	4.6	100
4/2/2019	ND	0.0520	11	2.5	0.33	3.8	88
9/18/2019	0.024	0.0520	8.8	2.7	0.32	3.6	96
5/4/2020	ND	0.049	15	2.8	0.36	4.5	110
Pearson's Correlation Coefficient (r) - Boron							
p-value							
Pearson's Correlation Coefficient (r) - Lithium							
p-value							
	0.8255	0.2258	0.9552	0.0141	0.4685		

Notes:

- (1) Results reported in milligrams per liter (mg/L)
- (2) Pearson's correlation coefficients for boron at WGWC-10 and WGWC-19 cannot be calculated due to insufficient boron detections.
- (3) Positive correlations are shown in black font. Negative correlations are shown in red font.
- (4) Statistically significant correlations are bold. p-value ≤ 0.05 indicate the correlation is statistically significant.

TDS = Total dissolved solids

ND = Not detected at the laboratory method detection limit (MDL)

Table 2
Summary of Seven-Step Sequential Extraction Procedure
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

Sequential Extraction Procedure Steps ⁽¹⁾	
Step 1 - Exchangeable Phase	This extraction includes trace elements that are reversibly sorbed to soil minerals, amorphous solids, and/or organic material by electrostatic forces. These forces may be overcome by exposing the soil to a concentrated electrolyte solution, such as magnesium sulfate (MgSO ₄) that displaces the trace elements from solid surfaces.
Step 2 - Carbonate Phase	This extraction targets trace elements that are sorbed or otherwise bound to carbonate minerals. This phase is soluble in a mild acid solution such as sodium acetate/acetic acid (NaOAc/HOAc) at pH 5.
Step 3 - Non-Crystalline Materials Phase	This extraction targets trace elements that are complexed by amorphous minerals (e.g. iron). This phase is extracted with ammonium oxalate (pH 3).
Step 4 - Metal Hydroxide Phase	Trace elements bound to hydroxides of iron, manganese, and/or aluminum are extracted using a solution of hydroxylamine hydrochloride in acetic acid.
Step 5 - Organic-Bound Phase	This extraction targets trace elements strongly bound via chemisorption to organic material. Oxidation of soil organic matter using sodium hypochlorite (NaClO at pH 9.5), will bring into solution metals bound to organic functional groups.
Step 6 - Acid/Sulfide Fraction	The extraction is used to identify trace elements precipitated as sulfide minerals. Metals associated with sulfide minerals will be extracted by leaching the soils with a solution of hydrochloric acid, nitric acid, and water (HCl-HNO ₃ -H ₂ O) to dissolve the metal sulfide minerals.
Step 7 - Residual Fraction	Trace elements remaining in the soil after the previous extractions will be distributed between silicates, phosphates, and refractory oxides. These residual metals can be removed from the soil through total dissolution with hydrofluoric acid (HF), nitric acid (HNO ₃), hydrochloric acid (HCl), and boric acid (H ₃ BO ₃).

Notes:

(1) Sample were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7-Step Sequential Extraction Procedure". EPA Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

Table 3
Total and Sequential Extraction Concentrations of Lithium in Rock Core Samples
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

Sample Location:	PB-3 (same formation as WGWC-9)	PB-3 (same formation as WGWC-9)	PB-4 (same formation as WGWC-9)	PB-4 (same formation as WGWC-9)	PB-4 (same formation as WGWC-9)	PB-7 (adjacent to WGWC-10)	PB-8 (same formation as WGWC-19)	WGWC-8	WGWC-19	WGWC-19
Sample Depth (ft bgs):	47 - 52	57-61	49-59	64-68	73-80	144 - 154	135 - 145	47 - 57	87 - 88	89 - 90
Sample Elevation (ft NAVD88):	757 - 752	747 - 743	760 - 750	745 - 741	736 - 729	672 - 662	712 - 702	731 - 721	694 - 693	692 - 691
Screen Interval of Compliance Well (ft NAVD88) ⁽¹⁾ :	NA	NA	NA	NA	NA	NA	NA	730 - 720	699 - 689	699 - 689
Adjacent Compliance Well and Screen Interval (ft NAVD88) ⁽²⁾ :	WGWC-9 (760-750)	WGWC-9 (760-750)	WGWC-9 (760-750)	WGWC-9 (760-750)	WGWC-9 (760-750)	WGWC-10 (673 - 663)	WGWC-19 (699 - 689)	NA	NA	NA
Sample Analysis Date:	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Oct-Nov 2020	Sept - Oct 2020	Sept - Oct 2020
Rock Type:	Gneiss	Gneiss	Gneiss	Gneiss	Gneiss	Schist-Amphibolite	Schist-Amphibolite	Quartzite	Schist-Amphibolite	Schist-Amphibolite
Sequential Extraction Results (mg/kg)										
Extraction - Step 1	<0.60	<0.61	<0.61	<0.61	<0.60	<0.60	<0.60	<0.61	<0.62	<0.62
Extraction - Step 2	<0.45	<0.45	<0.45	0.56 J	<0.45	0.69 J	0.63 J	<0.46	<0.46	<0.47
Extraction - Step 3	0.20 J	0.37 J	0.23 J	0.52 J	0.25 J	0.57 J	0.34 J	<0.15	0.52 J	0.52 J
Extraction - Step 4	5.7	1.3 J	8.1	8.1	6.7	11	2.3 J	1.2 J	11	12
Extraction - Step 5	3.1 J	2.7 J	3.2 J	3.7 J	3.9 J	6.9 J	2.6 J	<2.2	5.7 J	5.1 J
Extraction - Step 6	4.1	1.8 J	4.7 J	14	7.9	69	35	1.1 J	55	45
Extraction - Step 7	10	11	14	10	14	53	18	10	26	20
Sum of Steps 1-7	23	17	31	37	32	140	59	12	98	83
Total Lithium Concentration in Core (mg/kg)	22	17	36	43	36	130	53	17	86	70

Notes:
ft bgs = feet below ground surface
ft NAVD88 = North American Vertical Datum of 1988.
mg/kg = milligram per kilogram
(1) Screen interval of compliance well shown for comparison to core sample collection interval. NA if core sample location is not a compliance well.
(2) Screen interval of adjacent compliance well or compliance well completed in same geologic formation for comparison to core sample collection interval. NA if core sample location is a compliance well.

Table 4
Comparison of Predicted and Measured Lithium Concentrations in Groundwater
Plant Wansley AP-1, Carroll and Heard Counties, Georgia

Sample Location:	PB-3 (same formation as WGWC-9)	PB-3 (same formation as WGWC-9)	PB-4 (same formation as WGWC-9)	PB-4 (same formation as WGWC-9)	PB-4 (same formation as WGWC-9)	PB-7 (adjacent to WGWC-10)	PB-8 (same formation as WGWC-19)	WGWC-8	WGWC-19	WGWC-19
Sample Depth (ft bgs):	47 - 52	57-61	49-59	64-68	73-80	144 - 154	135 - 145	47 - 57	87 - 88	89 - 90
Sample Elevation (ft NAVD88):	757 - 752	747 - 743	760 - 750	745 - 741	736 - 729	672 - 662	712 - 702	731 - 721	694 - 693	692 - 691
Screen Interval of Compliance Well (ft NAVD88) ⁽¹⁾:	NA	NA	NA	NA	NA	NA	NA	730 - 720	699 - 689	699 - 689
Adjacent Compliance Well and Screen Interval (ft NAVD88) ⁽²⁾:	WGWC-9 (760-750)	WGWC-9 (760-750)	WGWC-9 (760-750)	WGWC-9 (760-750)	WGWC-9 (760-750)	WGWC-10 (673 - 663)	WGWC-19 (699 - 689)	NA	NA	NA
Sample Analysis Date:	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Sept - Nov 2020	Oct-Nov 2020	Sept - Oct 2020	Sept - Oct 2020
Rock Type:	Gneiss	Gneiss	Gneiss	Gneiss	Gneiss	Schist-Amphibolite	Schist-Amphibolite	Quartzite	Schist-Amphibolite	Schist-Amphibolite
Total Lithium Concentration in Core (mg/kg)	22	17	36	43	36	130	53	17	86	70
Predicted Lithium in Groundwater (mg/L) ⁽³⁾	0.073	0.057	0.120	0.143	0.120	0.433	0.177	0.057	0.287	0.233
Actual Lithium in Groundwater (mg/L) ⁽⁴⁾	0.039 ⁽⁵⁾	0.039 ⁽⁵⁾	0.039 ⁽⁵⁾	0.039 ⁽⁵⁾	0.039 ⁽⁵⁾	0.0071 ⁽⁶⁾	0.049 ⁽⁷⁾	0.015	0.049	0.049

Notes:

ft bgs = feet below ground surface

ft NAVD88 = North American Vertical Datum of 1988.

mg/kg = milligram per kilogram

mg/L - milligram per liter

(1) Screen interval of compliance well shown for comparison to core sample collection interval. NA if core sample location is not a compliance well.

(2) Screen interval of adjacent compliance well or compliance well completed in same geologic formation for comparison to core sample collection interval. NA if core sample location is a compliance well.

(3) Predicted concentrations of lithium in groundwater based on distribution coefficient ($K_d = 300$ L/kg (Baes et al., 1984)). Predicted concentrations calculated by dividing lithium concentrations in cores (mg/kg) by 300 L/kg.

(4) Lithium concentration in compliance well detected during the March 2020 semi-annual groundwater assessment event.

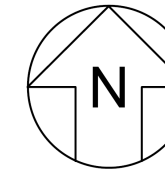
(5) Lithium concentration in compliance well WGWC-9.

(6) Lithium concentration in compliance well WGWC-10.






(7) Lithium concentration in compliance well WGWC-19.

FIGURE

M:\GA Power\Plant\Wansley\GIS\Sim\2020\ASD\Figure 1 - Monitoring Well Network and Rock Core Sampling Location Map_v2.mxd 11/18/2020 12:04:53 PM



LEGEND

-  Compliance Monitoring Well
-  Characterization Monitoring Well
-  Piezometer
-  Test Boring/Piezometer
-  2020 Rock Core Sampling Location



Notes:
 1. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, June 2018.



MONITORING WELL NETWORK AND 2020 ROCK CORE SAMPLING LOCATIONS

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For:  Georgia Power

Prepared By:  Geosyntec
 consultants

KENNESAW, GA NOVEMBER 2020

FIGURE
1

APPENDIX A

Select Boring Logs

RECORD OF BOREHOLE WGWC8/APC-1

SHEET 1 of 2

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 57.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/29/15
 DATE COMPLETED: 10/29/15

NORTHING: 1242929.40
 EASTING: 2029644.58
 GS ELEVATION: 777.70
 TOC ELEVATION: 780.08

DEPTH W.L.: 36' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/02/2015
 TIME W.L.: 12:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0		0.00 - 2.00 SAPROLITE; overburden, dry to moist, brown to reddish orange	ML		775.70				<p>WELL CASING Interval: -2.5'-47' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 47'-57' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 45'-57' Type: #1 Sand/Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 41.5'-45' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-41.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4"x4"x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic</p>
775		2.00 - 4.00 CLAYEY SILT; dry to moist, brown overburden (saprolite)			2.00				
5		4.00 - 8.00 red orange overburden (saprolite)	ML		773.70				
770					4.00				
10		8.00 - 24.00 dry to moist, brown to reddish orange			769.70				
765					8.00				
15					753.70				
760					24.00				
25		24.00 - 28.00 GRAVELLY CLAY; wet, yellow-orange, trace black and white stringers, manganese oxide and weathered feldspar, lean clay	GC		749.70				
750					28.00				
30		28.00 - 29.00 CLAYEY SAND/TRANSITIONALLY WEATHERED ROCK; wet, brown, clayey silt, some fine to coarse sand, some fine gravel size rock fragments	TWR		748.70				
745		29.00 - 57.00 Mylonitic QUARTZITE ROCK; white to light brown, rock is less coherent and likely fractured around 54-56' interval	BR		29.00				
45									

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

Log continued on next page

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC8/APC-1

SHEET 2 of 2

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 57.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/29/15
 DATE COMPLETED: 10/29/15

NORTHING: 1242929.40
 EASTING: 2029644.58
 GS ELEVATION: 777.70
 TOC ELEVATION: 780.08

DEPTH W.L.: 36' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/02/2015
 TIME W.L.: 12:00

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
45		29.00 - 57.00 Mylonitic QUARTZITE ROCK; white to light brown, rock is less coherent and likely fractured around 54-56' interval <i>(Continued)</i>		BR				<p>#1 Sand -</p> <p>0.010" Slot Screen -</p>	<p>WELL CASING Interval: -2.5'-47' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 47'-57' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 45'-57' Type: #1 Sand/Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 41.5'-45' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-41.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic</p>
730									
50									
725									
55									
720		Boring completed at 57.00 ft			720.70				
60									
715									
65									
710									
70									
705									
75									
700									
80									
695									
85									
690									
90									

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17





LOG OF TEST BORING AND WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
 EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Ash Pond Piezometers
 LOCATION Plant Wansley

DATE STARTED 12/4/2014 COMPLETED 12/4/2014 SURF. ELEV. 809.33 COORDINATES: N:1242801.12 E:209115.75

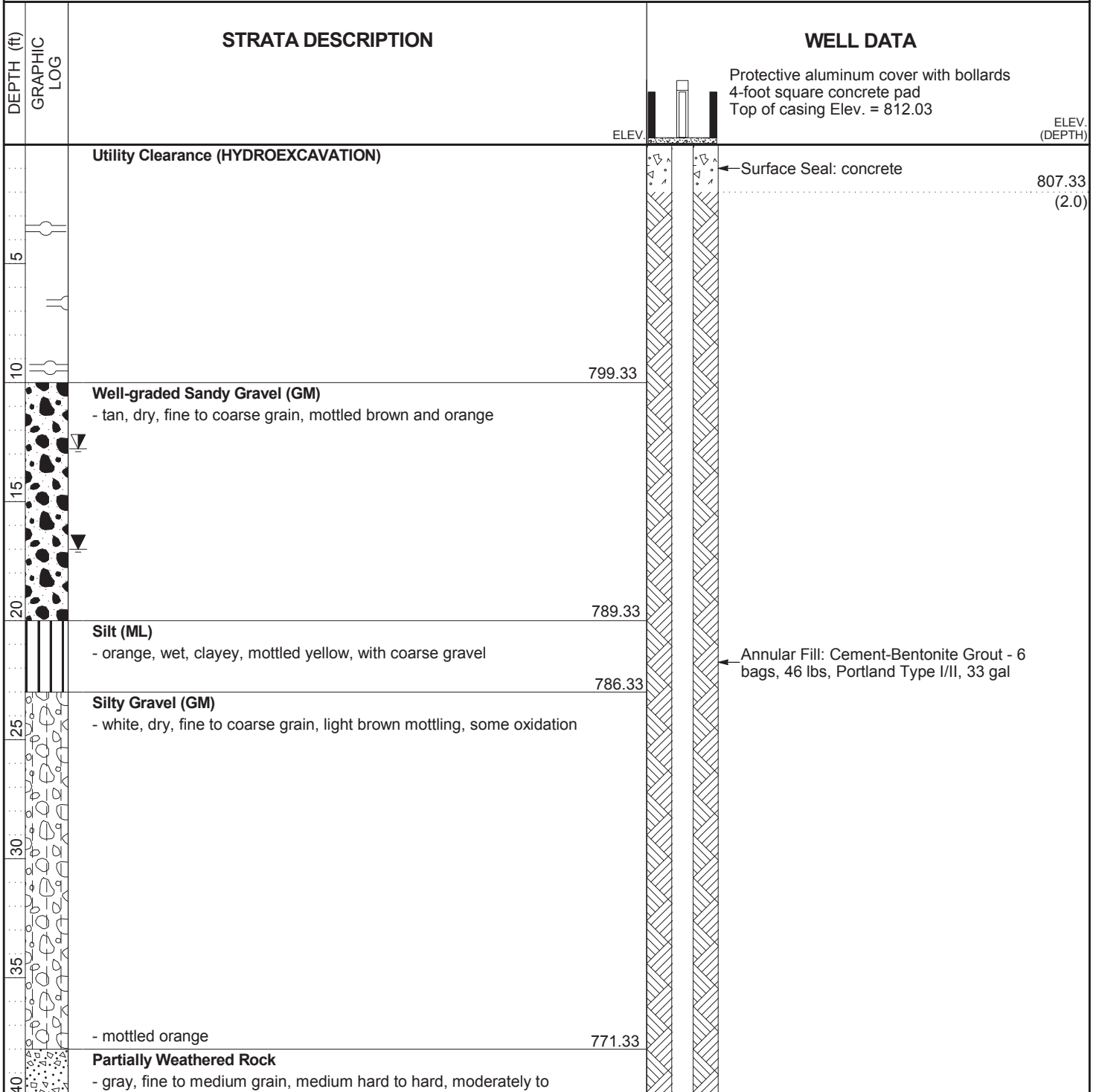
CONTRACTOR CASCADE EQUIPMENT SONIC METHOD Rotosonic

DRILLED BY T.Ardito LOGGED BY S. Baxter CHECKED BY L. Millet ANGLE _____ BEARING _____

BORING DEPTH 58 ft. GROUND WATER DEPTH: DURING _____ COMP. 17 ft. DELAYED 12.78 ft. after 24 hrs.

NOTES _____

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 2/26/15 15:57 - S:\WORKGROUPS\APC GENERAL SERVICE COMPLEX\CIVIL TECH SUPPORT\DRILLING\PROJECTS\WANSLEY ASH POND PIEZOMETER\PLANT_WANSLEY_ASH_POND_1 (2).GPJ



(Continued Next Page)

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 2/26/15 15:57 - S:\WORKGROUPS\APC GENERAL SERVICE COMPLEX\CIVIL TECH SUPPORT\DRILLING\PROJECTS\WANSLEY ASH POND PIEZING\PLANT_WANSLEY_ASH_POND_1 (2).GPJ



LOG OF TEST BORING AND WELL INSTALLATION

WGWC-9
PAGE 2 OF 2
ECS38198

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Ash Pond Piezometers

LOCATION Plant Wansley

DEPTH (ft) GRAPHIC LOG	STRATA DESCRIPTION	WELL DATA
<p>45</p> <p>50</p> <p>55</p>	<p>highly weathered, with oxidation Partially Weathered Rock(Cont)</p>	<p>ELEV. (CONTINUED)</p> <p>ELEV. (DEPTH)</p> <p>767.83 (41.5)</p> <p>Annular Seal: bentonite chips - 1 bag, 50 lbs, Baroid 3/8" chips</p> <p>765.23 (44.1)</p> <p>Filter: silica filter sand - 4.5 bags, 50 lbs, #1A filter media</p> <p>760.93 (48.4)</p> <p>Well: 2" OD PVC (SCH 40)</p> <p>Well: 2" OD PVC (SCH 40) Screen: 10 ft. pre-pack</p> <p>751.33</p> <p>750.93</p> <p>Sump: 0.40 ft.</p>

Bottom of borehole at 58.0 feet.

RECORD OF BOREHOLE WGWC10/APC-3D

SHEET 1 of 4

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 146.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/27/15
 DATE COMPLETED: 10/27/15

NORTHING: 1240971.96
 EASTING: 2026725.61
 GS ELEVATION: 809.61
 TOC ELEVATION: 812.38

DEPTH W.L.: 7.73' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/27/15
 TIME W.L.: 14:41

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 11.00 SILT; dry to moist, yellow to orange-red, some clay, some very fine sand, trace muscovite								WELL CASING Interval: -2.5'-136' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 136'-146' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 134'-136' Type: #1 Sand Prepacked Filter FILTER PACK SEAL Interval: 131.5'-134' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-131.5' Type: Portland Type 1 WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic
5	805	6.00: Shelby Tube Collected: 6'-8'	ML							
10	800	11.00 - 23.00 CLAYEY SILT; dry to moist, orange to red, 5-10% muscovite, trace black MnO, trace garnet, trace quartz, saprolite			798.61 11.00					
15	795		ML							
20	790				786.61 23.00					
25	785	23.00 - 37.00 SILT; moist, yellow brown, some clay, come very fine sand, layers of white CLAYEY SILT, 3" thick lense of weathered pegmatite material at 25', 39', and 42'								
30	780		ML							
35	775	36.00: Shelby Tube Collected: 36'-38'			772.61 37.00					
40	770	37.00 - 40.00 CLAYEY SILT; some weathered pegmatite material, white/pink weathered potassium feldspar and plagioclase	ML		769.61 40.00					
45	765	40.00 - 47.00 SILT; moist, yellow brown, some clay, come very fine sand, layers of white CLAYEY SILT, 3" thick lense of weathered pegmatitic material at 42'	ML							

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC10/APC-3D

SHEET 2 of 4

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 146.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/27/15
 DATE COMPLETED: 10/27/15

NORTHING: 1240971.96
 EASTING: 2026725.61
 GS ELEVATION: 809.61
 TOC ELEVATION: 812.38

DEPTH W.L.: 7.73' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/27/15
 TIME W.L.: 14:41

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
45			ML		762.61 47.00				<p>WELL CASING Interval: -2.5'-136' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 136'-146' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 134'-136' Type: #1 Sand Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 131.5'-134' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-131.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p>	
50	760	47.00 - 58.00 SAPROLITE; moist, grayish brown with some orange mineral oxidation, weathered muscovite schist, predominately weathered feldspars, 10-15% muscovite, <10% quartz	ML		751.61 58.10					
55	755	58.00 - 58.10 1" black layer with gravel size quartz grains, silt sized black particles			58.10					
60	750	58.10 - 88.00 moist, grayish brown with some orange mineral oxidation, weathered muscovite schist, predominately weathered feldspars								
65	745							Portland Type 1		
70	740									
75	735									
80	730									
85	725									
90	720	88.00 - 92.00 SANDY SILT; moist to wet, orange brown, sandy silt, very fine to fine sand, trace fine gravel, micaceous	ML		721.61 88.00					

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC10/APC-3D

SHEET 3 of 4

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 146.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/27/15
 DATE COMPLETED: 10/27/15

NORTHING: 1240971.96
 EASTING: 2026725.61
 GS ELEVATION: 809.61
 TOC ELEVATION: 812.38

DEPTH W.L.: 7.73' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/27/15
 TIME W.L.: 14:41

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV.	SAMPLE NO.	TYPE	REC		
90		88.00 - 92.00 SANDY SILT; moist to wet, orange brown, sandy silt, very fine to fine sand, trace fine gravel, micaceous <i>(Continued)</i>	ML		717.61					<p>WELL CASING Interval: -2.5'-136' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 136'-146' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 134'-136' Type: #1 Sand Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 131.5'-134' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-131.5' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4"x4"x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 4-inch Sonic Rock Drill: 4-inch Sonic</p>
	715	92.00 - 96.00 SAPROLITE; moist, grayish brown with some orange mineral oxidation, weathered muscovite schist, predominantly feldspar, trace quartz, trace biotite, trace garnet	ML		92.00					
	95				713.61					
		96.00 - 97.00 SANDY SILT; moist to wet, orange brown, sandy silt, very fine to fine sand, trace fine gravel, micaceous	ML		96.00					
	710	97.00 - 106.00 SAPROLITE; moist, grayish brown with some orange mineral oxidation, weathered muscovite schist, predominantly feldspar, trace quartz, trace biotite, trace garnet	ML		712.61					
	100				97.00					
	105		ML		703.61					
	705	106.00 - 116.00 NO RECOVERY			106.00					
	110				693.61					
	695	116.00 - 119.00 SAPROLITE ROCK; gametiferous, muscovite meta quartzite rock fragments up to 2.5" interbedded with weathered muscovite schist	TWR	▲ ▲ ▲ ▲	116.00					
	120	119.00 - 139.00 moist to wet, silty clay and silt, weathered garnet, muscovite, plagioclase, schist, trace quartz	TWR	▲ ▲ ▲ ▲	690.61					
	690				119.00					
	125				685					
	685				680					
	130				675					
	675									

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC19/APC-2

SHEET 1 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 92.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/28/15
 DATE COMPLETED: 10/28/15

NORTHING: 1241851.51
 EASTING: 2028949.19
 GS ELEVATION: 780.60
 TOC ELEVATION: 783.42

DEPTH W.L.: 20.5' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/28/15
 TIME W.L.: 13:10

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
0	780	0.00 - 27.00 SILTY SAND; reddish orange overburden	SM					WELL CASING Interval: -2.5'-82' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 82'-92' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 79.1'-92' Type: #1 Sand/Prepacked Filter FILTER PACK SEAL Interval: 77'-79.1' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-77' Type: Portland Type 1 WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic	
5	775								
10	770								
15	765								
20	760	22.00: Shelby Tube Collected: 22'-24'			753.60				
25	755								
30	750	27.00 - 30.00 SILT; dry to moist, light brown, brown, orange brown and grey. Trace white feldspar and black MnO laminations, trace fine gravel, quartz-rich lense from 30-33' (35% quartz). some weathered schist (saprolite)	ML		27.00				
		30.00 - 33.00 some severely weathered gneiss				750.60	30.00		
		33.00 - 60.00 dry to moist, light brown, brown, orange brown and grey. Trace white feldspar and black MnO laminations, trace fine gravel, quartz-rich lense from 30-33' (35% quartz). some weathered schist (saprolite)				747.60	33.00		
35	745						Portland Type 1		
40	740								
45		Log continued on next page							

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC19/APC-2

SHEET 2 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 92.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/28/15
 DATE COMPLETED: 10/28/15

NORTHING: 1241851.51
 EASTING: 2028949.19
 GS ELEVATION: 780.60
 TOC ELEVATION: 783.42

DEPTH W.L.: 20.5' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/28/15
 TIME W.L.: 13:10

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE			SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE		
45	735	33.00 - 60.00 dry to moist, light brown, brown, orange brown and grey. Trace white feldspar and black MnO laminations, trace fine gravel, quartz-rich lense from 30-33' (35% quartz), some weathered schist (saprolite) <i>(Continued)</i>							<p>WELL CASING Interval: -2.5'-82' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 82'-92' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 79.1'-92' Type: #1 Sand/Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 77'-79.1' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-77' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic</p>
50	730								
55	725								
60	720	60.00 - 63.00 stiffer with trace gravel							
65	715	63.00 - 70.00 TRANSITIONALLY WEATHERED ROCK; brown micaceous schist and garnetiferous greywacke, dry	PWR	▲ ▲ ▲ ▲ ▲	720.60 60.00 717.60 63.00				
70	710	70.00 - 87.00 ROCK; garnetiferous greywacke with white plagioclase laminations			710.60 70.00				
75	705		BR				3/8" Bentonite Pellets		
80	700								
85	695						#1 Sand		
90	690	87.00 - 92.00 ROCK; wet, dark grey micaceous schist	BR		693.60 87.00		0.010" Slot Screen		

Log continued on next page

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC19/APC-2



SHEET 3 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 92.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 10/28/15
 DATE COMPLETED: 10/28/15

NORTHING: 1241851.51
 EASTING: 2028949.19
 GS ELEVATION: 780.60
 TOC ELEVATION: 783.42

DEPTH W.L.: 20.5' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 10/28/15
 TIME W.L.: 13:10

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
90	690	87.00 - 92.00 ROCK; wet, dark grey micaceous schist <i>(Continued)</i>	BR		688.60					<p>WELL CASING Interval: -2.5'-82' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 82'-92' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 79.1'-92' Type: #1 Sand/Prepacked Filter</p> <p>FILTER PACK SEAL Interval: 77'-79.1' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-77' Type: Portland Type 1</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: Hydrovac/4-inch Sonic Rock Drill: 4-inch Sonic</p>
		Boring completed at 92.00 ft								
95	685									
100	680									
105	675									
110	670									
115	665									
120	660									
125	655									
130	650									
135										

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT | 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: Tom Ardito

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



Drilling Start Date: 2/23/2017	Boring Depth (ft): 63	Well Depth (ft): (28-38) & (52-62)
Drilling End Date: 2/24/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 1
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Full size truck	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: V. Scott	Top of Casing Elev. (ft): 804.57	Seal Material(s): Bentonite
Logged By: J. Ivanowski	Location (Y, X): 1243273.69, 2029686.62	Filter Pack: 20/40 silica sand

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
0							(0') SILTY CLAY with gravel, with railroad ballast, fill		Air-knifed to top of rock	
2							(2') METAQUARTZITE, intensely fractured, pale yellow to white, granular, very hard, iron oxide staining, cataclasite, iron oxide scale		Good water return (~50%)	800
7							(7') METAQUARTZITE, intensely fractured, white to pale brown, granular, iron oxide staining, cataclasite, iron oxide scaling, increasing competency with depth		Hard drilling, ~50% return	795
17							(17') Same as above, more fractured		Softer drilling, slightly less water return	790
20										785

NOTE:

Drilling Start Date: 2/23/2017	Boring Depth (ft): 63	Well Depth (ft): (28-38) & (52-62)
Drilling End Date: 2/24/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 1
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Full size truck	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: V. Scott	Top of Casing Elev. (ft): 804.57	Seal Material(s): Bentonite
Logged By: J. Ivanowski	Location (Y, X): 1243273.69, 2029686.62	Filter Pack: 20/40 silica sand

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
20							(20') METAQUARTZITE, intensely fractured, pale yellow to white, iron oxide staining, felsic cataclasite, iron oxide staining		Moderately hard drilling, water recovery ~30%	780	
25											775
30							Photo 8 of photo log	(30') GNEISS, intensely fractured, pale blue to pink, weakly foliated, staining of fracture surfaces			770
35								(32') METAQUARTZITE, intensely fractured, pale brown to tan, cataclasite, gravelly, highly oxidized			765
40							(36') Same rock as above, more competent, fewer natural fractures		Harder drilling, water return ~60%	765	

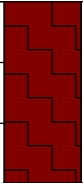
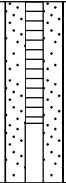
NOTE:

Drilling Start Date: 2/23/2017	Boring Depth (ft): 63	Well Depth (ft): (28-38) & (52-62)
Drilling End Date: 2/24/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 1
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Full size truck	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: V. Scott	Top of Casing Elev. (ft): 804.57	Seal Material(s): Bentonite
Logged By: J. Ivanowski	Location (Y, X): 1243273.69, 2029686.62	Filter Pack: 20/40 silica sand

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
40							<p>(40.5') GNEISS, foliated, pale blue to pink, increasing competency</p> <p>Photo 13 of photo log</p> <p>(47') GNEISS, distinct mineral banding, blueish gray and pink, few very high angle (~65°) healed hairline fractures; high RQD; no oxidation present</p> <p>(49') Becoming more pink, cataclastic, abundant intersecting healed hairline fractures; possible water-bearing fractures at 49.2', 50.7', 52.5', 54.0' (very slight film on fracture surfaces; no staining)</p> <p>(57') GNEISS, low angle open fractures, pale brown to tan, heavily oxidized, scale on surfaces</p> <p>(58') GNEISS, steep foliated, blueish gray</p>			<p>760</p> <p>755</p> <p>750</p> <p>745</p>
45				HQ	2	92			Stopped for 2/23/17, started HQ Coring on 2/24/17, water return~80%	
50				HQ	7	87			Very hard, slow, 2 hrs to drill 7 ft, water return ~80%	
55				HQ	3	54			Very slow, water recovery ~60%	
60										

NOTE:

Drilling Start Date: 2/23/2017	Boring Depth (ft): 63	Well Depth (ft): (28-38) & (52-62)
Drilling End Date: 2/24/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 1
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Full size truck	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: V. Scott	Top of Casing Elev. (ft): 804.57	Seal Material(s): Bentonite
Logged By: J. Ivanowski	Location (Y, X): 1243273.69, 2029686.62	Filter Pack: 20/40 silica sand

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
60							(58') GNEISS, steep foliated, blueish gray(continued)			

(63.0') Boring Terminated

NOTE:

Drilling Start Date: 2/21/2017	Boring Depth (ft): 80	Well Depth (ft): (25-35) & (63-73)
Drilling End Date: 2/22/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 1
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Full size truck	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: V. Scott	Top of Casing Elev. (ft): 809.43	Seal Material(s): Bentonite
Logged By: J. Ivanowski	Location (Y, X): 1242790.61, 2029126.42	Filter Pack: 20/40 silica sand

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
0							(0') SANDY SILT with cobbles (ML)		0-10' removed by air knife	
5							(8') Becomes very hard			805
10							(10') SILT with angular gravel (ML); very dense, wet, pale yellow to white, relict rock fabric, SAPROLITE	PB-4 (11-12)		800
15				SC	8		(14') PARTIALLY WEATHERED ROCK, hard, dry, fragments of gneiss (15') SILT with angular gravel (ML); very dense, wet, pale yellow to white, relict rock fabric, SAPROLITE	PB-4 (15-16)	~75% water recovery Driller reported very hard drilling ~50% water recover	795
20							(16.5') METAQUARTZITE, banded, pale gray to white (17.5') METAQUARTZITE, granular, intensely fractured rock, felsic gneiss to quartzite, abundant oxidation along fractures			790

NOTE:

Drilling Start Date: 2/21/2017	Boring Depth (ft): 80	Well Depth (ft): (25-35) & (63-73)
Drilling End Date: 2/22/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 1
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Full size truck	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: V. Scott	Top of Casing Elev. (ft): 809.43	Seal Material(s): Bentonite
Logged By: J. Ivanowski	Location (Y, X): 1242790.61, 2029126.42	Filter Pack: 20/40 silica sand

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
20		▽	SC	6			(20') As above; metaquartzite, intensely fractured, iron oxide staining along fracture surfaces, rock is broken into large gravel and small cobble size fragments	PB-4 (24-25)	Driller reports 50% water return during run	785	
25						Photo 5 of photo log					780
30						6.5			(37') As above; intensley fractured, sand and mud filled fracture at 38.1'	Switched to HQ coring, pulled 2' core due to blockage ~40% water return	775
35						1.8					770
40								~40% water			

NOTE:

Drilling Start Date: 2/21/2017	Boring Depth (ft): 80	Well Depth (ft): (25-35) & (63-73)
Drilling End Date: 2/22/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 1
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Full size truck	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: V. Scott	Top of Casing Elev. (ft): 809.43	Seal Material(s): Bentonite
Logged By: J. Ivanowski	Location (Y, X): 1242790.61, 2029126.42	Filter Pack: 20/40 silica sand

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
40				HQ	5	27	Photo 13 of photo log		recovery		
								(40') METAQUARTZITE, iron oxide staining, high angle fractures with oxide stained surfaces, surfaces are smooth-undulating			
								(43') Increasing competency with depth			
45								(44') Intensely fractured zone, heavily oxidized (44.4') Sand filled fracture		~50% water recovery, used ~200 gallons per 5' run	765
				HQ	5	43					
							(47') More competent, few high angle fractures, oxidized surfaces (47.9') Mud-filled fracture				
50							(49') GNEISS, banded, dark gray to blue, more competent few fractures, fracture zone at 49.5	Used ~250 gal for this 7' run, return ~60%	760		
				HQ	7	60	Photo 16 of photo log		End for 2/21/17		
							(52') Pale yellow to orange, open fracture (52.5') GNEISS, blue to gray, mechanical breaks (53') Pale brown, intensely fractured, oxidized fracture zone at 54.5'				
55							(54.5') GNEISS, blue to gray, mylonitized with white augen, oxidized fractures at 56.4', 59.5', 61.0', 61.5', 61.7', and 62.1'	~100 gal water used, ~70% recovery	755		
60									750		

NOTE:

Drilling Start Date: 2/21/2017	Boring Depth (ft): 80	Well Depth (ft): (25-35) & (63-73)
Drilling End Date: 2/22/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 1
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Full size truck	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: V. Scott	Top of Casing Elev. (ft): 809.43	Seal Material(s): Bentonite
Logged By: J. Ivanowski	Location (Y, X): 1242790.61, 2029126.42	Filter Pack: 20/40 silica sand

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)		
				Sample Type	Recovery (ft)	RQD (%)					Photo	
60				HQ	8	64	Photo 20 of photo log					
								(54.5') GNEISS, blue to gray, mylonitized with white augen, oxidized fractures at 56.4', 59.5', 61.0', 61.5', 61.7', and 62.1'(continued)				
65								(64') GNEISS, dark blue to gray, no staining, high angle fractures; open fractures at 64.5', 65.2', 65.4', 65.5', and 66.0'		~20% water recovery	745	
							HQ	4	21			
										(66.5') Intensely fractured from 66.5' to 67.0', filled with sand and gravel, stained with iron-oxide		
70							Photo 27 of photo log			740		
				HQ	6	74			Very hard, slow drilling, good water return >70%			
							(68') GNEISS, poorly weathered, very dark blue to gray, strong quartz banding with epidote, few hairline fractures (high angle)					
75										735		
				HQ	6	90	Photo 31 of photo log		Very hard, slow drilling, water return ~70%			
							(74') As above; pink potassium feldspar pegmatites, nearly unfractured					
80										730		

(80.0') Boring Terminated

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
0							(0') Air knifed for utility clearance			815
5										810
7				SC	0		(7') No recovery			805
10										800
15				SC	3					800
20							(17') CLAY with silt (CL); some silt, medium plasticity, soft, moist, reddish yellow (7.5YR 6/8), foliation (angular rock fragments in a black layer near the bottom), SAPROLITE	PB-7 (18-19)		800

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)				
				Sample Type	Recovery (ft)	RQD (%)					Photo			
20		▽	▲▲▲▲▲	SC	6.5		<p>Photo 2 of photo log</p> <p>(17') CLAY with silt (CL); some silt, medium plasticity, soft, moist, reddish yellow (7.5YR 6/8), foliation (angular rock fragments in a black layer near the bottom), SAPROLITE (continued)</p> <p>(30') Becomes red (2.5YR 5/8)</p> <p>(35') Angular fine gravel (quartz) in black layer at 49'</p>	PB-7 (24-25)		795				
25											790			
30											PB-7 (29-30)		785	
35								ST	2			PB-7 (34-35)		780
40								SC	3			PB-7 (35-37)		

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
40				SC	10		(35') Angular fine gravel (quartz) in black layer at 49' (continued)	PB-7 (44-45)		775
45										
50							(51') As above, abundant white banding	PB-7 (54-55)		765
55				SC	12					760
60										

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
60							(51') As above, abundant white banding(<i>continued</i>)			755
65				SC	11		(65') Coarse angular cobbles (quartz?)	PB-7 (64-65)		750
70										745
75				SC	10		(75') Becomes light olive brown (2.5Y 5/3)	PB-7 (74-75)		740
80										

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft.msl)						
				Sample Type	Recovery (ft)	RQD (%)					Photo					
80				SC	13.5		(80') Becomes brownish yellow (10YR 6/8)	PB-7 (83-84)		735						
85																
							(86') Fine and coarse gravel (quartz?) layer, angular, up to 2" diameter	PB-7 (86-87)		730						
90							(90') CLAY with intact rock fragment (CL); olive (5Y 4/2), easily broken by hand, some fragments cannot be broken by hand, INTENSELY WEATHERED ROCK	PB-7 (90-91)		725						
95									Hard drilling, core barrel is advancing very slowly	720						
100																

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
100							(100') PARTIALLY WEATHERED ROCK, slightly weathered, gray (7.5YR 5/1), fine to coarse, moist, thinly to thickly bedded, loose, hard rock fragments (abundant mica, some grains of garnet and quartz)			715
105				SC	11.5		(104') Becomes reddish yellow (7.5YR 6/8)	PB-7 (104-105)	Hard drilling	710
110				SC	4			PB-7 (108-109)	Hard drilling	705
115				SC	6		(115') Becomes gray (7.5YR 5/1)	PB-7 (114-115)		700
120				SC	1		(118') Becomes pinkish gray (7.5YR 6/2), dry	PB (117-119)	Hard drilling	

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
120							(118') Becomes pinkish gray (7.5YR 6/2), dry(continued)			
							(121') No Recovery			695
							(122') Becomes gray (7.5YR 5/1), moist			
125				SC	9			PB-7 (124-125)	Hard drilling	
								PB-7 (127-128)		690
							(128.5') Becomes pinkish gray (7.5YR 6/2), dry	PB-7 (129-130)		
130							(130') Becomes pinkish gray (7.5YR 5/1), moist, abundant platy rock fragments (schist), some rock fragments contain large grains of quartz and have irregular shape (non-platy)			685
135				SC	6				Hard drilling	
								PB-7 (137-138)		680
140										

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
140				SC	3		<p>(140') SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to coarse, very hard, fresh, weak bedding planes and high angle joints, some quartz banding, TOP OF ROCK</p> <p>(143') SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to coarse, very hard, fresh, unfractured, mechanical breaks along high angled joints, few quartz banding, some coarse quartz grains, abundant mica</p>		<p>Hard drilling</p> <p>Sonic drilling ends at 143' (3/29/2017), HQ rock coring begins at 143' (3/30/2017)</p>	675	
145				HQ	4	100				Photo 16 of photo log	670
150				HQ	5.5	100					665
155				HQ	5	100					660
160						Photo 20					

NOTE:

Drilling Start Date: 3/23/2017	Boring Depth (ft): 167	Well Depth (ft): (65-75)
Drilling End Date: 3/31/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): 2
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: A. Blackwood	Top of Casing Elev. (ft): 816.51	Seal Material(s): Bentonite
Logged By: N. Tilahun and J. Griffin	Location (Y, X): 1240837.08, 2026768.14	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
160				HQ	5	100	(143') SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to coarse, very hard, fresh, unfractured, mechanical breaks along high angled joints, few quartz banding, some coarse quartz grains, abundant mica(continued)			655
165				HQ	4.5	100				650

(167.0') Boring Terminated

NOTE:

Drilling Start Date: 4/12/2017	Boring Depth (ft): 147	Well Depth (ft): (45-55) (121-131)
Drilling End Date: 4/20/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): N/A
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: M. Hanson and J. Triepke	Top of Casing Elev. (ft): 847.24	Seal Material(s): Bentonite
Logged By: N. Tilahun	Location (Y, X): 1241128.67, 2026529.99	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
0							(0') Topsoil; FILL			
5				SC	10		(2') CLAY with silt (CL); some silt, abundant mica, medium plasticity, soft, dry, reddish yellow (7.5YR 6/8), foliation, SAPROLITE	PB-8 (4-5)		845
10							(7') SANDY SILT (ML); abundant mica, non plastic, loose, dry, reddish yellow (7.5YR 8/6), mostly silt, foliation, rock fragments of mica (fragile), INTENSELY WEATHERED ROCK	PB-8 (8-9)		840
15				SC	10					835
20										830

NOTE:

Drilling Start Date: 4/12/2017	Boring Depth (ft): 147	Well Depth (ft): (45-55) (121-131)
Drilling End Date: 4/20/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): N/A
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: M. Hanson and J. Triepke	Top of Casing Elev. (ft): 847.24	Seal Material(s): Bentonite
Logged By: N. Tilahun	Location (Y, X): 1241128.67, 2026529.99	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
20				SC	10		(19') CLAY with silt (CL); trace fine to coarse gravel of quartz, some silt, low plasticity, soft, dry, brown (7.5YR 5/4), foliation, SAPROLITE (20') CLAY with silt (CL); some silt, abundant mica, medium plasticity, soft, dry, brown (7.5YR 5/4), foliation, SAPROLITE (26') Becomes reddish yellow (7.5YR 8/6)	PB-8 (24-25)		825
25						Photo 3 of photo log				
30				SC	8			PB-8 (34-35)		815
35										810
40										

NOTE:

Drilling Start Date: 4/12/2017	Boring Depth (ft): 147	Well Depth (ft): (45-55) (121-131)
Drilling End Date: 4/20/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): N/A
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: M. Hanson and J. Triepke	Top of Casing Elev. (ft): 847.24	Seal Material(s): Bentonite
Logged By: N. Tilahun	Location (Y, X): 1241128.67, 2026529.99	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
40				SC	12		<p>(40') CLAY (CL); some fine to coarse gravel, some mica, medium plasticity, soft, dry, brown (7.5YR 5/4)</p> <p>(42') Hard, gray (7.5YR 5/1), angular</p> <p>(45') CLAY with silt (CL); some silt, abundant mica, low plasticity, soft, dry, gray (7.5YR 6/1), foliation</p>	PB-8 (44-45)		805	
45										800	
50				SC	8						795
55											790
60						Photo 6 of photo log					
						Photo 7 of photo log	<p>(58') CLAY with silt (CL); some silt, abundant mica, low plasticity, soft, dry, gray (7.5YR 6/1), fragile, mica rock fragments, INTENSELY WEATHERED ROCK</p> <p>(58.9') Becomes trace fine to coarse sand, moist</p>	PB-8 (59-60)			

NOTE:

Drilling Start Date: 4/12/2017	Boring Depth (ft): 147	Well Depth (ft): (45-55) (121-131)
Drilling End Date: 4/20/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): N/A
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: M. Hanson and J. Triepke	Top of Casing Elev. (ft): 847.24	Seal Material(s): Bentonite
Logged By: N. Tilahun	Location (Y, X): 1241128.67, 2026529.99	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
60							(60') Becomes dry			785
65				SC	10.5		(64') Becomes slightly hard, some rock fragments of mica, fine to coarse grained (65') Becomes wet, driller saw water dripping as he pulled out sample	PB-8 (66-67)		780
70				SC	4.5		(67') Becomes wet, medium plasticity (68.5') Becomes medium hard, some rock fragments of mica, fine to coarse grained, dry, low plasticity			775
75				SC	2		(72') No recovery			770
80							(78') Becomes wet, medium plasticity (79.5') Becomes dry	PB-8 (79-80)		

NOTE:

Drilling Start Date: 4/12/2017	Boring Depth (ft): 147	Well Depth (ft): (45-55) (121-131)
Drilling End Date: 4/20/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): N/A
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: M. Hanson and J. Triepke	Top of Casing Elev. (ft): 847.24	Seal Material(s): Bentonite
Logged By: N. Tilahun	Location (Y, X): 1241128.67, 2026529.99	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
80										
							(80') No recovery			
							(81') Becomes dry			765
85				SC	9					
							(87') Becomes dry, reddish yellow (7.5YR 8/6), low plasticity	PB-8 (89-90)		760
90										
							(92') Becomes moist, light brown (7.5YR 6/4), medium plasticity			755
95				SC	8					
							(96') Becomes moist, gray (7.5YR 5/1), low plasticity			750
100							(99') Becomes dry	PB-8 (99-100)		

NOTE:

Drilling Start Date: 4/12/2017	Boring Depth (ft): 147	Well Depth (ft): (45-55) (121-131)
Drilling End Date: 4/20/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): N/A
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: M. Hanson and J. Triepke	Top of Casing Elev. (ft): 847.24	Seal Material(s): Bentonite
Logged By: N. Tilahun	Location (Y, X): 1241128.67, 2026529.99	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
100							(100') No recovery			
105				SC	8		(102') Mica SCHIST, gray (7.5YR 5/1), highly fractured rock, rounded, fine to coarse grain, TOP OF ROCK		Broken due to drilling	745
110							(108') Bigger rock fragments		Too hard to push Shelby Tube from 108' to 110'	740
115				SC	8.5		(111.5') Mica SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to medium, medium hard, fresh, platy rock fragments, slightly fractured (pyrite staining on fracture surfaces), some quartz grains			735
120							(115') Irregular shaped (not platy) rock fragments			730
							(117') As above, GNEISS, massive bedding, banded, foliation, hard			

NOTE:

Drilling Start Date: 4/12/2017	Boring Depth (ft): 147	Well Depth (ft): (45-55) (121-131)
Drilling End Date: 4/20/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): N/A
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: M. Hanson and J. Triepke	Top of Casing Elev. (ft): 847.24	Seal Material(s): Bentonite
Logged By: N. Tilahun	Location (Y, X): 1241128.67, 2026529.99	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
120				HQ	1.5	75	<p>(120') No recovery</p> <p>(120.5') GNEISS, massive, gray (7.5YR 5/1), medium to coarse, very hard, fresh, black and white (mafic and felsic) banding, abundant mica, pyrite fillings in tight/healed fractures</p> <p>(122') Mica SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to medium, hard, fresh, platy rock fragments, abundant mica, fracture zone from 122'-124', return water is clayey which indicated clay filled fractures</p> <p>(124') Massive mechanical breaks along tight fractures, slight banding</p> <p>(127') As above, slight banding, fracture at 128'</p> <p>(132') As above, fracture at 133' and 134', thin white banding, ~4" quartz layer near bottom (137')</p> <p>(137') As above, fracture at 138.5' and 140', thin white banding, ~4" thick quartz layer near top (137')</p>		<p>Sonic drilling ends at 120' (4/13/2017), HQ coring begins at 120' (4/20/2017)</p>	725
125				HQ	5	87				720
130				HQ	5	90				715
135				HQ	5	100				710
140				HQ	5	100				
				HQ	5	100				

NOTE:

Drilling Start Date: 4/12/2017	Boring Depth (ft): 147	Well Depth (ft): (45-55) (121-131)
Drilling End Date: 4/20/2017	Boring Diameter (in): 6" x 4"	Well Diameter (in): N/A
Drilling Company: Cascade	Sampling Method(s): ST, SC, HQ	Screen Slot (in): 0.01
Drilling Method: Sonic/HQ Rock Coring	DTW During Drilling (ft): --	Riser Material: PVC
Drilling Equipment: Terra Sonic	DTW After Drilling (ft): --	Screen Material: PVC
Driller Name: M. Hanson and J. Triepke	Top of Casing Elev. (ft): 847.24	Seal Material(s): Bentonite
Logged By: N. Tilahun	Location (Y, X): 1241128.67, 2026529.99	Filter Pack: Sand Pack

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft. msl)
				Sample Type	Recovery (ft)	RQD (%)				
140				HQ	5	100	(137') As above, fracture at 138.5' and 140', thin white banding, ~4" thick quartz layer near top (137')(continued)			705
145				(142') As above, tight fractures at 143.5' and 144', thin white banding						

(147.0') Boring Terminated

NOTE:

APPENDIX B

Laboratory Analytical Reports

ANALYTICAL REPORT

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

Laboratory Job ID: 180-109917-1
Client Project/Site: Plant Wansley GW7327

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
11/10/2020 6:24:13 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Job ID: 180-109917-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-109917-1

Comments

No additional comments.

Receipt

The samples were received on 8/21/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9° C.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

- C = Concentration from instrument readout, $\mu\text{g/mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor
- V1 = Total volume of leachate, mL
- V2 = Volume of leachate digested, mL
- W = Wet weight of sample, g
- S = Percent solids/100

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Job ID: 180-109917-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Method 6010B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: PB-3 57-61 (180-109917-1), PB-3 47-52 (180-109917-2), PB-4 49-59 (180-109917-3), PB-4 64-68 (180-109917-4) and PB-4 73-80 (180-109917-5).

Method 6010B SEP: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: PB-3 57-61 (180-109917-1), PB-4 49-59 (180-109917-3) and PB-4 73-80 (180-109917-5).

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

General Chemistry

% Moisture: The samples were analyzed for percent moisture using SOP number KNOX-WC-0012 (based on Modified MCAWW 160.3 and SM2540B and on the percent moisture determinations described in methods 3540C and 3550B).

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 Wansley GW7327

Job ID: 180-109917-1

Qualifiers

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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Laboratory: Eurofins TestAmerica, Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-22
ANAB	Dept. of Energy	L2311.01	02-13-22
ANAB	ISO/IEC 17025	L2311	02-13-22
ANAB	ISO/IEC 17025	L2311	02-14-22
Arkansas DEQ	State	88-0688	06-17-21
California	State	2423	06-30-21
Colorado	State	TN00009	02-28-21
Connecticut	State	PH-0223	09-30-21
Florida	NELAP	E87177	07-01-21
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-21
Kansas	NELAP	E-10349	11-01-20 *
Kentucky (DW)	State	90101	01-01-21
Louisiana	NELAP	LA110001	12-31-12 *
Louisiana	NELAP	83979	06-30-21
Louisiana (DW)	State	LA019	12-31-20
Maryland	State	277	03-31-21
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-21
New Hampshire	NELAP	299919	01-17-21
New Jersey	NELAP	TN001	07-01-21
New York	NELAP	10781	03-31-21
North Carolina (DW)	State	21705	07-31-21
North Carolina (WW/SW)	State	64	12-31-20
Ohio VAP	State	CL0059	06-02-23
Oklahoma	State	9415	08-31-21
Oregon	NELAP	TNI0189	01-02-21
Pennsylvania	NELAP	68-00576	12-31-20
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-21
Virginia	NELAP	460176	09-14-21
Washington	State	C593	01-19-21
West Virginia (DW)	State	9955C	01-01-21
West Virginia DEP	State	345	05-01-21
Wisconsin	State	998044300	08-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-109917-1	PB-3 57-61	Solid	07/14/20 11:05	08/21/20 09:45	
180-109917-2	PB-3 47-52	Solid	07/14/20 11:00	08/21/20 09:45	
180-109917-3	PB-4 49-59	Solid	07/14/20 12:10	08/21/20 09:45	
180-109917-4	PB-4 64-68	Solid	07/14/20 12:15	08/21/20 09:45	
180-109917-5	PB-4 73-80	Solid	07/14/20 12:20	08/21/20 09:45	
180-109917-6	PB-7 144-154	Solid	07/14/20 12:45	08/21/20 09:45	
180-109917-7	PB-8 135-145	Solid	07/14/20 15:15	08/21/20 09:45	

Method Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-3 57-61

Lab Sample ID: 180-109917-1

Date Collected: 07/14/20 11:05

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			44105	11/02/20 10:23	DKW	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PB-3 57-61

Lab Sample ID: 180-109917-1

Date Collected: 07/14/20 11:05

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			44042	10/29/20 16:33	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			43944	10/27/20 12:12	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			43944	10/27/20 13:53	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			43944	10/27/20 15:39	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		2			43997	10/28/20 16:31	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			43997	10/28/20 13:46	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.00 g	250 mL	43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			43997	10/28/20 15:32	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			44042	10/29/20 12:12	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PB-3 47-52

Lab Sample ID: 180-109917-2

Date Collected: 07/14/20 11:00

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			44105	11/02/20 10:23	DKW	TAL KNX
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-3 47-52

Lab Sample ID: 180-109917-2

Date Collected: 07/14/20 11:00

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			44042	10/29/20 16:38	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			43944	10/27/20 12:17	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			43944	10/27/20 13:58	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			43944	10/27/20 15:44	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			43997	10/28/20 12:04	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			43997	10/28/20 13:51	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.00 g	250 mL	43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			43997	10/28/20 15:37	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			44042	10/29/20 12:17	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PB-4 49-59

Lab Sample ID: 180-109917-3

Date Collected: 07/14/20 12:10

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			44105	11/02/20 10:23	DKW	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PB-4 49-59

Lab Sample ID: 180-109917-3

Date Collected: 07/14/20 12:10

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			44042	10/29/20 16:43	KNC	TAL KNX
Instrument ID: DUO										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 49-59

Lab Sample ID: 180-109917-3

Date Collected: 07/14/20 12:10

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			43944	10/27/20 12:36	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			43944	10/27/20 14:03	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			43944	10/27/20 15:49	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			43997	10/28/20 12:28	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			43997	10/28/20 13:56	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.00 g	250 mL	43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		2			43997	10/28/20 16:40	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			44042	10/29/20 12:32	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PB-4 64-68

Lab Sample ID: 180-109917-4

Date Collected: 07/14/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			44105	11/02/20 10:23	DKW	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PB-4 64-68

Lab Sample ID: 180-109917-4

Date Collected: 07/14/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			44042	10/29/20 16:47	KNC	TAL KNX
Instrument ID: DUO										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 64-68

Lab Sample ID: 180-109917-4

Date Collected: 07/14/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			43944	10/27/20 12:41	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			43944	10/27/20 14:07	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			43944	10/27/20 15:54	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			43997	10/28/20 12:33	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			43997	10/28/20 14:00	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.00 g	250 mL	43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			43997	10/28/20 15:47	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			44042	10/29/20 12:37	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PB-4 73-80

Lab Sample ID: 180-109917-5

Date Collected: 07/14/20 12:20

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			44105	11/02/20 10:23	DKW	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PB-4 73-80

Lab Sample ID: 180-109917-5

Date Collected: 07/14/20 12:20

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			44042	10/29/20 16:52	KNC	TAL KNX
Instrument ID: DUO										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 73-80

Lab Sample ID: 180-109917-5

Date Collected: 07/14/20 12:20

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			43944	10/27/20 12:45	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			43944	10/27/20 14:12	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			43944	10/27/20 15:58	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		2			43997	10/28/20 16:36	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			43997	10/28/20 14:05	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.00 g	250 mL	43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			43997	10/28/20 15:52	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			44042	10/29/20 12:42	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PB-7 144-154

Lab Sample ID: 180-109917-6

Date Collected: 07/14/20 12:45

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			44105	11/02/20 10:23	DKW	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PB-7 144-154

Lab Sample ID: 180-109917-6

Date Collected: 07/14/20 12:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			44042	10/29/20 14:36	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-7 144-154

Lab Sample ID: 180-109917-6

Date Collected: 07/14/20 12:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			43944	10/27/20 12:50	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			43944	10/27/20 14:31	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			43944	10/27/20 16:03	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			43997	10/28/20 12:43	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			43997	10/28/20 14:25	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.00 g	250 mL	43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			43997	10/28/20 15:57	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			44042	10/29/20 12:46	KNC	TAL KNX
Instrument ID: DUO										

Client Sample ID: PB-8 135-145

Lab Sample ID: 180-109917-7

Date Collected: 07/14/20 15:15

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			44105	11/02/20 10:23	DKW	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: PB-8 135-145

Lab Sample ID: 180-109917-7

Date Collected: 07/14/20 15:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1			44042	10/29/20 14:42	KNC	TAL KNX
Instrument ID: DUO										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-8 135-145

Lab Sample ID: 180-109917-7

Date Collected: 07/14/20 15:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 1	SEP	Exchangeable			5.000 g	25 mL	43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			43944	10/27/20 12:55	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			43944	10/27/20 14:36	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			43944	10/27/20 16:08	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			43997	10/28/20 12:48	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			43997	10/28/20 14:30	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.00 g	250 mL	43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			43997	10/28/20 16:02	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			44042	10/29/20 12:52	KNC	TAL KNX
Instrument ID: DUO										

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Analyst References:

Lab: TAL KNX

Batch Type: SEP

KNC = Kerry Collins

Batch Type: Prep

KNC = Kerry Collins

Batch Type: Analysis

DKW = Donna Wilburn

KNC = Kerry Collins

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-3 57-61

Lab Sample ID: 180-109917-1

Date Collected: 07/14/20 11:05

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.61		10	0.61	mg/Kg	☼	09/29/20 08:00	10/27/20 12:12	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.45		7.6	0.45	mg/Kg	☼	10/13/20 08:00	10/27/20 13:53	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.37	J	2.5	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 15:39	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	1.3	J	5.0	0.30	mg/Kg	☼	10/15/20 08:00	10/28/20 16:31	2

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	2.7	J	38	2.2	mg/Kg	☼	10/19/20 08:00	10/28/20 13:46	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	1.8	J	2.5	0.15	mg/Kg	☼	10/19/20 08:00	10/28/20 15:32	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	11		2.5	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:12	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	17		2.5	0.15	mg/Kg			11/02/20 10:23	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	17		13	0.76	mg/Kg	☼	09/28/20 08:00	10/29/20 16:33	5

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-3 47-52

Lab Sample ID: 180-109917-2

Date Collected: 07/14/20 11:00

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.60		10	0.60	mg/Kg	☼	09/29/20 08:00	10/27/20 12:17	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.45		7.5	0.45	mg/Kg	☼	10/13/20 08:00	10/27/20 13:58	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.20	J	2.5	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 15:44	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	5.7		2.5	0.15	mg/Kg	☼	10/15/20 08:00	10/28/20 12:04	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	3.1	J	38	2.2	mg/Kg	☼	10/19/20 08:00	10/28/20 13:51	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	4.1		2.5	0.15	mg/Kg	☼	10/19/20 08:00	10/28/20 15:37	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	10		2.5	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:17	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	23		2.5	0.15	mg/Kg			11/02/20 10:23	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	22		13	0.75	mg/Kg	☼	09/28/20 08:00	10/29/20 16:38	5

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 49-59

Lab Sample ID: 180-109917-3

Date Collected: 07/14/20 12:10

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.61		10	0.61	mg/Kg	☼	09/29/20 08:00	10/27/20 12:36	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.45		7.6	0.45	mg/Kg	☼	10/13/20 08:00	10/27/20 14:03	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.23	J	2.5	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 15:49	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	8.1		2.5	0.15	mg/Kg	☼	10/15/20 08:00	10/28/20 12:28	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	3.2	J	38	2.2	mg/Kg	☼	10/19/20 08:00	10/28/20 13:56	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	4.7	J	5.0	0.30	mg/Kg	☼	10/19/20 08:00	10/28/20 16:40	2

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	14		2.5	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:32	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	31		2.5	0.15	mg/Kg			11/02/20 10:23	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	36		13	0.76	mg/Kg	☼	09/28/20 08:00	10/29/20 16:43	5

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 64-68

Lab Sample ID: 180-109917-4

Date Collected: 07/14/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.8

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.61		10	0.61	mg/Kg	☼	09/29/20 08:00	10/27/20 12:41	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.56	J	7.6	0.46	mg/Kg	☼	10/13/20 08:00	10/27/20 14:07	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.52	J	2.5	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 15:54	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	8.1		2.5	0.15	mg/Kg	☼	10/15/20 08:00	10/28/20 12:33	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	3.7	J	38	2.2	mg/Kg	☼	10/19/20 08:00	10/28/20 14:00	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	14		2.5	0.15	mg/Kg	☼	10/19/20 08:00	10/28/20 15:47	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	10		2.5	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:37	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	37		2.5	0.15	mg/Kg			11/02/20 10:23	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	43		13	0.76	mg/Kg	☼	09/28/20 08:00	10/29/20 16:47	5

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-4 73-80

Lab Sample ID: 180-109917-5

Date Collected: 07/14/20 12:20

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.6

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.60		10	0.60	mg/Kg	☼	09/29/20 08:00	10/27/20 12:45	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.45		7.5	0.45	mg/Kg	☼	10/13/20 08:00	10/27/20 14:12	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.25	J	2.5	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 15:58	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	6.7		5.0	0.30	mg/Kg	☼	10/15/20 08:00	10/28/20 16:36	2

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	3.9	J	38	2.2	mg/Kg	☼	10/19/20 08:00	10/28/20 14:05	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	7.9		2.5	0.15	mg/Kg	☼	10/19/20 08:00	10/28/20 15:52	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	14		2.5	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:42	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	32		2.5	0.15	mg/Kg			11/02/20 10:23	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	36		13	0.75	mg/Kg	☼	09/28/20 08:00	10/29/20 16:52	5

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-7 144-154

Lab Sample ID: 180-109917-6

Date Collected: 07/14/20 12:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.7

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.60		10	0.60	mg/Kg	☼	09/29/20 08:00	10/27/20 12:50	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.69	J	7.5	0.45	mg/Kg	☼	10/13/20 08:00	10/27/20 14:31	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.57	J	2.5	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 16:03	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	11		2.5	0.15	mg/Kg	☼	10/15/20 08:00	10/28/20 12:43	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	6.9	J	38	2.2	mg/Kg	☼	10/19/20 08:00	10/28/20 14:25	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	69		2.5	0.15	mg/Kg	☼	10/19/20 08:00	10/28/20 15:57	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	53		2.5	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:46	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	140		2.5	0.15	mg/Kg			11/02/20 10:23	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	130		2.5	0.15	mg/Kg	☼	09/28/20 08:00	10/29/20 14:36	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Client Sample ID: PB-8 135-145

Lab Sample ID: 180-109917-7

Date Collected: 07/14/20 15:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 99.5

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.60		10	0.60	mg/Kg	☼	09/29/20 08:00	10/27/20 12:55	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.63	J	7.5	0.45	mg/Kg	☼	10/13/20 08:00	10/27/20 14:36	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.34	J	2.5	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 16:08	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	2.3	J	2.5	0.15	mg/Kg	☼	10/15/20 08:00	10/28/20 12:48	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	2.6	J	38	2.2	mg/Kg	☼	10/19/20 08:00	10/28/20 14:30	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	35		2.5	0.15	mg/Kg	☼	10/19/20 08:00	10/28/20 16:02	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	18		2.5	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:52	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	59		2.5	0.15	mg/Kg			11/02/20 10:23	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	53		2.5	0.15	mg/Kg	☼	09/28/20 08:00	10/29/20 14:42	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-43059/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		09/28/20 08:00	10/29/20 10:56	1

Lab Sample ID: LCS 140-43059/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.17		mg/Kg		103	75 - 125

Lab Sample ID: LCSD 140-43059/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.03		mg/Kg		101	75 - 125	3	30

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43060/14-B ^4
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 43133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.60		10	0.60	mg/Kg		09/29/20 08:00	10/27/20 11:39	4

Lab Sample ID: LCS 140-43060/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 43133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.09	J	mg/Kg		102	75 - 125

Lab Sample ID: LCSD 140-43060/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 43133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	4.61	J	mg/Kg		92	75 - 125	10	30

Lab Sample ID: MB 140-43447/14-B ^3
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 43460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.45		7.5	0.45	mg/Kg		10/13/20 08:00	10/27/20 13:09	3

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-43447/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 43460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	4.57	J	mg/Kg		91	75 - 125

Lab Sample ID: LCSD 140-43447/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 43460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	4.38	J	mg/Kg		88	75 - 125	4	30

Lab Sample ID: MB 140-43465/14-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 43495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/14/20 08:00	10/27/20 14:51	1

Lab Sample ID: LCS 140-43465/15-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 43495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.29		mg/Kg		106	75 - 125

Lab Sample ID: LCSD 140-43465/16-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 43495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.17		mg/Kg		103	75 - 125	2	30

Lab Sample ID: MB 140-43496/14-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 43539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/15/20 08:00	10/28/20 11:26	1

Lab Sample ID: LCS 140-43496/15-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 43539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.32		mg/Kg		106	75 - 125

Lab Sample ID: LCSD 140-43496/16-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 43539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.20		mg/Kg		104	75 - 125	2	30

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43540/14-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 43604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.2		38	2.2	mg/Kg		10/19/20 08:00	10/28/20 13:02	5

Lab Sample ID: LCS 140-43540/15-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 43604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	15.0	16.4	J	mg/Kg		109	75 - 125

Lab Sample ID: LCSD 140-43540/16-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 43604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	15.0	17.4	J	mg/Kg		116	75 - 125	6	30

Lab Sample ID: MB 140-43605/14-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 43605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/19/20 08:00	10/28/20 14:45	1

Lab Sample ID: LCS 140-43605/15-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 43605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	4.96		mg/Kg		99	75 - 125

Lab Sample ID: LCSD 140-43605/16-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 43605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.03		mg/Kg		101	75 - 125	1	30

Lab Sample ID: MB 140-43637/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 43637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/20/20 08:00	10/29/20 10:42	1

Lab Sample ID: LCS 140-43637/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 43637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.04		mg/Kg		101	75 - 125

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: LCSD 140-43637/16-A
 Matrix: Solid
 Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
 Prep Type: Step 7
 Prep Batch: 43637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Lithium	5.00	5.05		mg/Kg		101	75 - 125	0		30

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Prep Batch: 43059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Total/NA	Solid	Total	
180-109917-2	PB-3 47-52	Total/NA	Solid	Total	
180-109917-3	PB-4 49-59	Total/NA	Solid	Total	
180-109917-4	PB-4 64-68	Total/NA	Solid	Total	
180-109917-5	PB-4 73-80	Total/NA	Solid	Total	
180-109917-6	PB-7 144-154	Total/NA	Solid	Total	
180-109917-7	PB-8 135-145	Total/NA	Solid	Total	
MB 140-43059/14-A	Method Blank	Total/NA	Solid	Total	
LCS 140-43059/15-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-43059/16-A	Lab Control Sample Dup	Total/NA	Solid	Total	

SEP Batch: 43060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 1	Solid	Exchangeable	
180-109917-2	PB-3 47-52	Step 1	Solid	Exchangeable	
180-109917-3	PB-4 49-59	Step 1	Solid	Exchangeable	
180-109917-4	PB-4 64-68	Step 1	Solid	Exchangeable	
180-109917-5	PB-4 73-80	Step 1	Solid	Exchangeable	
180-109917-6	PB-7 144-154	Step 1	Solid	Exchangeable	
180-109917-7	PB-8 135-145	Step 1	Solid	Exchangeable	
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	

Prep Batch: 43133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 1	Solid	3010A	43060
180-109917-2	PB-3 47-52	Step 1	Solid	3010A	43060
180-109917-3	PB-4 49-59	Step 1	Solid	3010A	43060
180-109917-4	PB-4 64-68	Step 1	Solid	3010A	43060
180-109917-5	PB-4 73-80	Step 1	Solid	3010A	43060
180-109917-6	PB-7 144-154	Step 1	Solid	3010A	43060
180-109917-7	PB-8 135-145	Step 1	Solid	3010A	43060
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	3010A	43060
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	3010A	43060
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	43060

SEP Batch: 43447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 2	Solid	Carbonate	
180-109917-2	PB-3 47-52	Step 2	Solid	Carbonate	
180-109917-3	PB-4 49-59	Step 2	Solid	Carbonate	
180-109917-4	PB-4 64-68	Step 2	Solid	Carbonate	
180-109917-5	PB-4 73-80	Step 2	Solid	Carbonate	
180-109917-6	PB-7 144-154	Step 2	Solid	Carbonate	
180-109917-7	PB-8 135-145	Step 2	Solid	Carbonate	
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Prep Batch: 43460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 2	Solid	3010A	43447
180-109917-2	PB-3 47-52	Step 2	Solid	3010A	43447
180-109917-3	PB-4 49-59	Step 2	Solid	3010A	43447
180-109917-4	PB-4 64-68	Step 2	Solid	3010A	43447
180-109917-5	PB-4 73-80	Step 2	Solid	3010A	43447
180-109917-6	PB-7 144-154	Step 2	Solid	3010A	43447
180-109917-7	PB-8 135-145	Step 2	Solid	3010A	43447
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	3010A	43447
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	3010A	43447
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	43447

SEP Batch: 43465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 3	Solid	Non-Crystalline	
180-109917-2	PB-3 47-52	Step 3	Solid	Non-Crystalline	
180-109917-3	PB-4 49-59	Step 3	Solid	Non-Crystalline	
180-109917-4	PB-4 64-68	Step 3	Solid	Non-Crystalline	
180-109917-5	PB-4 73-80	Step 3	Solid	Non-Crystalline	
180-109917-6	PB-7 144-154	Step 3	Solid	Non-Crystalline	
180-109917-7	PB-8 135-145	Step 3	Solid	Non-Crystalline	
MB 140-43465/14-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	

Prep Batch: 43495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 3	Solid	3010A	43465
180-109917-2	PB-3 47-52	Step 3	Solid	3010A	43465
180-109917-3	PB-4 49-59	Step 3	Solid	3010A	43465
180-109917-4	PB-4 64-68	Step 3	Solid	3010A	43465
180-109917-5	PB-4 73-80	Step 3	Solid	3010A	43465
180-109917-6	PB-7 144-154	Step 3	Solid	3010A	43465
180-109917-7	PB-8 135-145	Step 3	Solid	3010A	43465
MB 140-43465/14-B	Method Blank	Step 3	Solid	3010A	43465
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	3010A	43465
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	3010A	43465

SEP Batch: 43496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 4	Solid	Metal Hydroxide	
180-109917-2	PB-3 47-52	Step 4	Solid	Metal Hydroxide	
180-109917-3	PB-4 49-59	Step 4	Solid	Metal Hydroxide	
180-109917-4	PB-4 64-68	Step 4	Solid	Metal Hydroxide	
180-109917-5	PB-4 73-80	Step 4	Solid	Metal Hydroxide	
180-109917-6	PB-7 144-154	Step 4	Solid	Metal Hydroxide	
180-109917-7	PB-8 135-145	Step 4	Solid	Metal Hydroxide	
MB 140-43496/14-B	Method Blank	Step 4	Solid	Metal Hydroxide	
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Prep Batch: 43539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 4	Solid	3010A	43496
180-109917-2	PB-3 47-52	Step 4	Solid	3010A	43496
180-109917-3	PB-4 49-59	Step 4	Solid	3010A	43496
180-109917-4	PB-4 64-68	Step 4	Solid	3010A	43496
180-109917-5	PB-4 73-80	Step 4	Solid	3010A	43496
180-109917-6	PB-7 144-154	Step 4	Solid	3010A	43496
180-109917-7	PB-8 135-145	Step 4	Solid	3010A	43496
MB 140-43496/14-B	Method Blank	Step 4	Solid	3010A	43496
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	3010A	43496
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	3010A	43496

SEP Batch: 43540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 5	Solid	Organic-Bound	
180-109917-2	PB-3 47-52	Step 5	Solid	Organic-Bound	
180-109917-3	PB-4 49-59	Step 5	Solid	Organic-Bound	
180-109917-4	PB-4 64-68	Step 5	Solid	Organic-Bound	
180-109917-5	PB-4 73-80	Step 5	Solid	Organic-Bound	
180-109917-6	PB-7 144-154	Step 5	Solid	Organic-Bound	
180-109917-7	PB-8 135-145	Step 5	Solid	Organic-Bound	
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	

Prep Batch: 43604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 5	Solid	3010A	43540
180-109917-2	PB-3 47-52	Step 5	Solid	3010A	43540
180-109917-3	PB-4 49-59	Step 5	Solid	3010A	43540
180-109917-4	PB-4 64-68	Step 5	Solid	3010A	43540
180-109917-5	PB-4 73-80	Step 5	Solid	3010A	43540
180-109917-6	PB-7 144-154	Step 5	Solid	3010A	43540
180-109917-7	PB-8 135-145	Step 5	Solid	3010A	43540
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	3010A	43540
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	3010A	43540
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	43540

SEP Batch: 43605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 6	Solid	Acid/Sulfide	
180-109917-2	PB-3 47-52	Step 6	Solid	Acid/Sulfide	
180-109917-3	PB-4 49-59	Step 6	Solid	Acid/Sulfide	
180-109917-4	PB-4 64-68	Step 6	Solid	Acid/Sulfide	
180-109917-5	PB-4 73-80	Step 6	Solid	Acid/Sulfide	
180-109917-6	PB-7 144-154	Step 6	Solid	Acid/Sulfide	
180-109917-7	PB-8 135-145	Step 6	Solid	Acid/Sulfide	
MB 140-43605/14-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-43605/15-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-43605/16-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Prep Batch: 43637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 7	Solid	Residual	
180-109917-2	PB-3 47-52	Step 7	Solid	Residual	
180-109917-3	PB-4 49-59	Step 7	Solid	Residual	
180-109917-4	PB-4 64-68	Step 7	Solid	Residual	
180-109917-5	PB-4 73-80	Step 7	Solid	Residual	
180-109917-6	PB-7 144-154	Step 7	Solid	Residual	
180-109917-7	PB-8 135-145	Step 7	Solid	Residual	
MB 140-43637/14-A	Method Blank	Step 7	Solid	Residual	
LCS 140-43637/15-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-43637/16-A	Lab Control Sample Dup	Step 7	Solid	Residual	

Analysis Batch: 43944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 1	Solid	6010B SEP	43133
180-109917-1	PB-3 57-61	Step 2	Solid	6010B SEP	43460
180-109917-1	PB-3 57-61	Step 3	Solid	6010B SEP	43495
180-109917-2	PB-3 47-52	Step 1	Solid	6010B SEP	43133
180-109917-2	PB-3 47-52	Step 2	Solid	6010B SEP	43460
180-109917-2	PB-3 47-52	Step 3	Solid	6010B SEP	43495
180-109917-3	PB-4 49-59	Step 1	Solid	6010B SEP	43133
180-109917-3	PB-4 49-59	Step 2	Solid	6010B SEP	43460
180-109917-3	PB-4 49-59	Step 3	Solid	6010B SEP	43495
180-109917-4	PB-4 64-68	Step 1	Solid	6010B SEP	43133
180-109917-4	PB-4 64-68	Step 2	Solid	6010B SEP	43460
180-109917-4	PB-4 64-68	Step 3	Solid	6010B SEP	43495
180-109917-5	PB-4 73-80	Step 1	Solid	6010B SEP	43133
180-109917-5	PB-4 73-80	Step 2	Solid	6010B SEP	43460
180-109917-5	PB-4 73-80	Step 3	Solid	6010B SEP	43495
180-109917-6	PB-7 144-154	Step 1	Solid	6010B SEP	43133
180-109917-6	PB-7 144-154	Step 2	Solid	6010B SEP	43460
180-109917-6	PB-7 144-154	Step 3	Solid	6010B SEP	43495
180-109917-7	PB-8 135-145	Step 1	Solid	6010B SEP	43133
180-109917-7	PB-8 135-145	Step 2	Solid	6010B SEP	43460
180-109917-7	PB-8 135-145	Step 3	Solid	6010B SEP	43495
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	6010B SEP	43133
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	6010B SEP	43460
MB 140-43465/14-B	Method Blank	Step 3	Solid	6010B SEP	43495
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	43133
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	43460
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	6010B SEP	43495
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	43133
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	43460
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	43495

Analysis Batch: 43997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 4	Solid	6010B SEP	43539
180-109917-1	PB-3 57-61	Step 5	Solid	6010B SEP	43604
180-109917-1	PB-3 57-61	Step 6	Solid	6010B SEP	43605
180-109917-2	PB-3 47-52	Step 4	Solid	6010B SEP	43539
180-109917-2	PB-3 47-52	Step 5	Solid	6010B SEP	43604

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals (Continued)

Analysis Batch: 43997 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-2	PB-3 47-52	Step 6	Solid	6010B SEP	43605
180-109917-3	PB-4 49-59	Step 4	Solid	6010B SEP	43539
180-109917-3	PB-4 49-59	Step 5	Solid	6010B SEP	43604
180-109917-3	PB-4 49-59	Step 6	Solid	6010B SEP	43605
180-109917-4	PB-4 64-68	Step 4	Solid	6010B SEP	43539
180-109917-4	PB-4 64-68	Step 5	Solid	6010B SEP	43604
180-109917-4	PB-4 64-68	Step 6	Solid	6010B SEP	43605
180-109917-5	PB-4 73-80	Step 4	Solid	6010B SEP	43539
180-109917-5	PB-4 73-80	Step 5	Solid	6010B SEP	43604
180-109917-5	PB-4 73-80	Step 6	Solid	6010B SEP	43605
180-109917-6	PB-7 144-154	Step 4	Solid	6010B SEP	43539
180-109917-6	PB-7 144-154	Step 5	Solid	6010B SEP	43604
180-109917-6	PB-7 144-154	Step 6	Solid	6010B SEP	43605
180-109917-7	PB-8 135-145	Step 4	Solid	6010B SEP	43539
180-109917-7	PB-8 135-145	Step 5	Solid	6010B SEP	43604
180-109917-7	PB-8 135-145	Step 6	Solid	6010B SEP	43605
MB 140-43496/14-B	Method Blank	Step 4	Solid	6010B SEP	43539
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	6010B SEP	43604
MB 140-43605/14-A	Method Blank	Step 6	Solid	6010B SEP	43605
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	6010B SEP	43539
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	43604
LCS 140-43605/15-A	Lab Control Sample	Step 6	Solid	6010B SEP	43605
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	43539
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	43604
LCSD 140-43605/16-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	43605

Analysis Batch: 44042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Step 7	Solid	6010B SEP	43637
180-109917-1	PB-3 57-61	Total/NA	Solid	6010B	43059
180-109917-2	PB-3 47-52	Step 7	Solid	6010B SEP	43637
180-109917-2	PB-3 47-52	Total/NA	Solid	6010B	43059
180-109917-3	PB-4 49-59	Step 7	Solid	6010B SEP	43637
180-109917-3	PB-4 49-59	Total/NA	Solid	6010B	43059
180-109917-4	PB-4 64-68	Step 7	Solid	6010B SEP	43637
180-109917-4	PB-4 64-68	Total/NA	Solid	6010B	43059
180-109917-5	PB-4 73-80	Step 7	Solid	6010B SEP	43637
180-109917-5	PB-4 73-80	Total/NA	Solid	6010B	43059
180-109917-6	PB-7 144-154	Step 7	Solid	6010B SEP	43637
180-109917-6	PB-7 144-154	Total/NA	Solid	6010B	43059
180-109917-7	PB-8 135-145	Step 7	Solid	6010B SEP	43637
180-109917-7	PB-8 135-145	Total/NA	Solid	6010B	43059
MB 140-43059/14-A	Method Blank	Total/NA	Solid	6010B	43059
MB 140-43637/14-A	Method Blank	Step 7	Solid	6010B SEP	43637
LCS 140-43059/15-A	Lab Control Sample	Total/NA	Solid	6010B	43059
LCS 140-43637/15-A	Lab Control Sample	Step 7	Solid	6010B SEP	43637
LCSD 140-43059/16-A	Lab Control Sample Dup	Total/NA	Solid	6010B	43059
LCSD 140-43637/16-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	43637

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109917-1

Metals

Analysis Batch: 44105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109917-1	PB-3 57-61	Sum of Steps 1-7	Solid	6010B SEP	
180-109917-2	PB-3 47-52	Sum of Steps 1-7	Solid	6010B SEP	
180-109917-3	PB-4 49-59	Sum of Steps 1-7	Solid	6010B SEP	
180-109917-4	PB-4 64-68	Sum of Steps 1-7	Solid	6010B SEP	
180-109917-5	PB-4 73-80	Sum of Steps 1-7	Solid	6010B SEP	
180-109917-6	PB-7 144-154	Sum of Steps 1-7	Solid	6010B SEP	
180-109917-7	PB-8 135-145	Sum of Steps 1-7	Solid	6010B SEP	



44153 Chain of Custody Record

4101 Shuffel Street NW
North Canton, OH 44720-6900
Phone (330) 497-9396

Client Information		Sampler: Taylor Payne	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No:				
Client Contact: Adria Reimer		Phone: 678-718-4760	E-Mail: shali.brown@testamericainc.com		Page:				
Company: Geosyntec		Analysis Requested							
Address: 1255 Roberts Blvd NW, Suite 200		Preservation Codes: M - Hexane A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - ... K - ... L - ... M - ... N - ... O - ... P - ... Q - ... R - ... S - ... T - ... U - ... V - ... W - ... Z - other (specify)							
City: Kennesaw		180-109917 Chain of Custody							
State, Zip: GA 30144									
Phone: 678-202-9564									
Email: areimer@geosyntec.com									
Project Name: GW7327									
Site: Plant Wansley AP1									
Due Date Requested: NLT 7/22/2020									
TAT Requested (days): 3 day RUSH									
PO #:									
WO #:									
Project #:									
SSOW#:									
Sample Identification		Special Instructions/Note:							
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Particle Size Reduction	6020 Lithium	Special Instructions/Note
PB-3 357-61	7/14/20	11:05	G	S	X	X	X	X	Applicable to all samples on COC - perform particle size reduction as needed to ensure homogeneous sample is analyzed
PB-3 347-52	7/14/20	11:00	G	S	X	X	X		
PB-4 449-59	7/14/20	12:10	G	S	X	X	X		
PB-4 64-68	7/14/20	12:15	G	S	X	X	X		
PB-4 73-80	7/14/20	12:20	G	S	X	X	X		
PB-7 144-154	7/14/20	12:45	G	S	X	X	X		
PB-8 135-145	7/14/20	15:15	G	S	X	X	X		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For 2 Months							
Deliverable Requested: <input checked="" type="checkbox"/> II, IV, Other (specify)		Special Instructions/QC Requirements: see special note above							
Empty Kit Relinquished by:		Time: Method of Shipment:							
Relinquished by: [Signature]		Date: 7/14/20 18:15							
Relinquished by: [Signature]		Date: 8-20-20 12:30							
Relinquished by: [Signature]		Date: 8-20-20 12:30							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:							
Cooler Temperature(s) °C and Other Remarks:		Received by: [Signature] Company: [Signature]							
		Received by: [Signature] Company: [Signature]							
		Received by: [Signature] Company: [Signature]							



Martin, Aaron

From: Brown, Shali
Sent: Thursday, August 20, 2020 3:59 PM
To: Martin, Aaron
Subject: 240-133223-1 and 240-133409-1 need these samples sent to Pittsburg please and thank you
Attachments: COC 240-133409 (202007151152).pdf; COC 240-133223 (202007101623).pdf

240-133223-1 and 240-133409-1 need these samples sent to Pittsburg
They should already be crushed (PSR was for whole sample).
Relinquish using the original COC's if possible. If not, I have included a copy of COC for each job.

133223 one sample plastic bag and soil jar C229

133409 seven samples plastic bag all in C238

If not too much trouble.... Can you eyeball about how much sample you have of each one?

Thank You!!
Shali

Please note our adjusted schedule for Labor Day >>

COMMUNICATIONS ALERT: Change of email addresses for all Eurofins TestAmerica staff effective July 9, 2020

Please update my email address Shali.Brown@eurofinset.com in your email directory!

Shali Brown
Project Manager

Eurofins TestAmerica
500 Wilson Pike Circle Suite 100
Brentwood, TN 37027
USA

Phone: 615-301-5031

E-mail: shali.brown@eurofinset.com

www.EurofinsUS.com | www.TestAmericainc.com | [Facebook](#) | [LinkedIn](#)

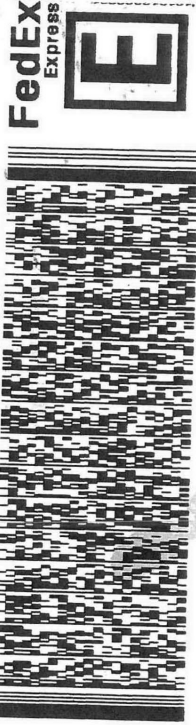
TestAmerica

ORIGIN ID: PHDA (330) 312-0176
EUROFINS TESTAMERICA CANTON
4101 SHUFFEL STREET NA
NORTH CANTON, OH 447206900
UNITED STATES US

SHIP DATE: 20AUG20
ACTWGT: 59.50 LB
CAD: 0562057/CAFE3313

BILL RECIPIENT

TO ENVIRONMENTAL SAMPLE RECEIPT
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
DEPT: AL HAIDET



FRI - 21 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 9148 7501 0859
0201

65 AGCA

15238
PA-US PIT

Uncorrected Temp
Thermometer ID

CF 0

Initials B

PT-WI-SR-001 effective 11/8/18



180-109917 Waybill

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

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

irofins Environment Testing
America



180-109917 Chain of Custody

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 5815 Middlebrook Pike, City: Knoxville State, Zip: TN, 37921 Phone: 865-291-3000(Tel) 865-584-4315(Fax) Email: Project Name: Plant Wansley GW7327 Site: Wansley CCR		Lab P/N: Brown, Shail E-Mail: Shail.Brown@Eurofinset.com State of Origin: Georgia Accreditations Required (See note):															
Due Date Requested: 10/13/2020 TAT Requested (days):		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)															
Date Requested: 10/13/2020 TAT Requested (days):		Analysis Requested 6010B_SEP/SEP1_MgSO4 (MOD) Step 1 6010B_SEP/SEP2_NaOAc (MOD) Step 2 6010B_SEP/SEP3_Oxalate (MOD) Step 3 6010B_SEP/SEP4_Hydroxyl (MOD) Step 4 6010B_SEP/SEP5_NaClO (MOD) Step 5 6010B_SEP_Calc (MOD) SEP Totals (As Fe and Mn) 6010B_SEP/SEP7_LM_Prep (MOD) Step 7 6010B_SEP/SEP6_Acid (MOD) Step 6 Moisture/Percent Moisture Total Number of Containers															
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Special Instructions/Note:															
Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=swab, BT=issue, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B_SEP/SEP1_MgSO4 (MOD) Step 1	6010B_SEP/SEP2_NaOAc (MOD) Step 2	6010B_SEP/SEP3_Oxalate (MOD) Step 3	6010B_SEP/SEP4_Hydroxyl (MOD) Step 4	6010B_SEP/SEP5_NaClO (MOD) Step 5	6010B_SEP_Calc (MOD) SEP Totals (As Fe and Mn)	6010B_SEP/SEP7_LM_Prep (MOD) Step 7	6010B_SEP/SEP6_Acid (MOD) Step 6	Moisture/Percent Moisture	Total Number of Containers
PB-3 57-61 (180-109917-1)	7/14/20	11:05 Eastern	Solid	Solid		X	X	X	X	X	X	X	X	X	X	X	1
PB-3 47-52 (180-109917-2)	7/14/20	11:00 Eastern	Solid	Solid		X	X	X	X	X	X	X	X	X	X	X	1
PB-4 49-59 (180-109917-3)	7/14/20	12:10 Eastern	Solid	Solid		X	X	X	X	X	X	X	X	X	X	X	1
PB-4 64-68 (180-109917-4)	7/14/20	12:15 Eastern	Solid	Solid		X	X	X	X	X	X	X	X	X	X	X	1
PB-4 73-80 (180-109917-5)	7/14/20	12:20 Eastern	Solid	Solid		X	X	X	X	X	X	X	X	X	X	X	1
PB-7 144-154 (180-109917-6)	7/14/20	12:45 Eastern	Solid	Solid		X	X	X	X	X	X	X	X	X	X	X	1
PB-8 135-145 (180-109917-7)	7/14/20	15:15 Eastern	Solid	Solid		X	X	X	X	X	X	X	X	X	X	X	1

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: *Matthew Jool* Date/Time: 9/11/20 1700 Company: *ETA P-H*
 Relinquished by: _____ Date/Time: _____ Company: *ETA*
 Relinquished by: _____ Date/Time: _____ Company: *ETA*
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____
 Date/Time: 9/12/20 0906 Company: *ETA*
 Date/Time: _____ Company: _____
 Date/Time: _____ Company: _____



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?	/			<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA	BT: 3.0°C CT: 3.0°C / Cooler Cryostat used in 2020 TK# 168, 5103 7/19 HW 9/12/20
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VQST: 10°C) Thermometer ID: <u>SC68</u> Correction factor: <u>0.0</u>	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	pH test strip lot number: _____
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only)	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	/			<input type="checkbox"/> Residual Chlorine	
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: _____				PM Instructions: _____	

QA026R32.doc, 062719

Date: 9/12/20

Sample Receiving Associate: Ken WA



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-109917-1

Login Number: 109917

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: 180-109919-1
Client Project/Site: Plant Wansley GW7327

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
11/10/2020 6:23:48 AM

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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 Wansley GW7327

Job ID: 180-109919-1

Job ID: 180-109919-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-109919-1

Comments

No additional comments.

Receipt

The sample was received on 8/21/2020 9:45 AM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9° C.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

- C = Concentration from instrument readout, $\mu\text{g/mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor
- V1 = Total volume of leachate, mL
- V2 = Volume of leachate digested, mL
- W = Wet weight of sample, g
- S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Job ID: 180-109919-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

Method 6010B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: WGWC-8-47-57 (180-109919-1).

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

General Chemistry

% Moisture: The samples were analyzed for percent moisture using SOP number KNOX-WC-0012 (based on Modified MCAWW 160.3 and SM2540B and on the percent moisture determinations described in methods 3540C and 3550B).

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 Wansley GW7327

Job ID: 180-109919-1

Qualifiers

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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Laboratory: Eurofins TestAmerica, Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-22
ANAB	Dept. of Energy	L2311.01	02-13-22
ANAB	ISO/IEC 17025	L2311	02-13-22
ANAB	ISO/IEC 17025	L2311	02-14-22
Arkansas DEQ	State	88-0688	06-17-21
California	State	2423	06-30-21
Colorado	State	TN00009	02-28-21
Connecticut	State	PH-0223	09-30-21
Florida	NELAP	E87177	07-01-21
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-21
Kansas	NELAP	E-10349	11-01-20 *
Kentucky (DW)	State	90101	01-01-21
Louisiana	NELAP	LA110001	12-31-12 *
Louisiana	NELAP	83979	06-30-21
Louisiana (DW)	State	LA019	12-31-20
Maryland	State	277	03-31-21
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-21
New Hampshire	NELAP	299919	01-17-21
New Jersey	NELAP	TN001	07-01-21
New York	NELAP	10781	03-31-21
North Carolina (DW)	State	21705	07-31-21
North Carolina (WW/SW)	State	64	12-31-20
Ohio VAP	State	CL0059	06-02-23
Oklahoma	State	9415	08-31-21
Oregon	NELAP	TNI0189	01-02-21
Pennsylvania	NELAP	68-00576	12-31-20
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-21
Virginia	NELAP	460176	09-14-21
Washington	State	C593	01-19-21
West Virginia (DW)	State	9955C	01-01-21
West Virginia DEP	State	345	05-01-21
Wisconsin	State	998044300	08-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-109919-1	WGWC-8-47-57	Solid	07/09/20 09:45	08/21/20 09:45	

- 1
- 2
- 3
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Method Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Client Sample ID: WGWC-8-47-57

Lab Sample ID: 180-109919-1

Date Collected: 07/09/20 09:45

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1			44104	11/02/20 10:20	DKW	TAL KNX
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8-47-57

Lab Sample ID: 180-109919-1

Date Collected: 07/09/20 09:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			1.000 g	50 mL	43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		5			44042	10/29/20 16:28	KNC	TAL KNX
Instrument ID: DUO										
Step 1	SEP	Exchangeable			5.000 g	25 mL	43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			5 mL	50 mL	43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4			43944	10/27/20 12:07	KNC	TAL KNX
Instrument ID: DUO										
Step 2	SEP	Carbonate			5.000 g	25 mL	43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			5 mL	50 mL	43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3			43944	10/27/20 13:48	KNC	TAL KNX
Instrument ID: DUO										
Step 3	SEP	Non-Crystalline			5.000 g	25 mL	43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			5 mL	50 mL	43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1			43944	10/27/20 15:34	KNC	TAL KNX
Instrument ID: DUO										
Step 4	SEP	Metal Hydroxide			5.000 g	25 mL	43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			5 mL	50 mL	43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1			43997	10/28/20 11:54	KNC	TAL KNX
Instrument ID: DUO										
Step 5	SEP	Organic-Bound			5.000 g	75 mL	43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			5 mL	50 mL	43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5			43997	10/28/20 13:41	KNC	TAL KNX
Instrument ID: DUO										
Step 6	SEP	Acid/Sulfide			5.00 g	250 mL	43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1			43997	10/28/20 15:27	KNC	TAL KNX
Instrument ID: DUO										
Step 7	Prep	Residual			1.000 g	50 mL	43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1			44042	10/29/20 12:07	KNC	TAL KNX
Instrument ID: DUO										

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Analyst References:

Lab: TAL KNX

Batch Type: SEP

KNC = Kerry Collins

Batch Type: Prep

KNC = Kerry Collins

Batch Type: Analysis

DKW = Donna Wilburn

KNC = Kerry Collins

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Client Sample ID: WGWC-8-47-57

Lab Sample ID: 180-109919-1

Date Collected: 07/09/20 09:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 98.7

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.61		10	0.61	mg/Kg	☼	09/29/20 08:00	10/27/20 12:07	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.46		7.6	0.46	mg/Kg	☼	10/13/20 08:00	10/27/20 13:48	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 15:34	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	1.2	J	2.5	0.15	mg/Kg	☼	10/15/20 08:00	10/28/20 11:54	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.2		38	2.2	mg/Kg	☼	10/19/20 08:00	10/28/20 13:41	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	1.1	J	2.5	0.15	mg/Kg	☼	10/19/20 08:00	10/28/20 15:27	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	10		2.5	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:07	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	12		2.5	0.15	mg/Kg			11/02/20 10:20	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	17		13	0.76	mg/Kg	☼	09/28/20 08:00	10/29/20 16:28	5

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-43059/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		09/28/20 08:00	10/29/20 10:56	1

Lab Sample ID: LCS 140-43059/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.17		mg/Kg		103	75 - 125

Lab Sample ID: LCSD 140-43059/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.03		mg/Kg		101	75 - 125	3	30

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43060/14-B ^4
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 43133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.60		10	0.60	mg/Kg		09/29/20 08:00	10/27/20 11:39	4

Lab Sample ID: LCS 140-43060/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 43133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.09	J	mg/Kg		102	75 - 125

Lab Sample ID: LCSD 140-43060/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 43133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	4.61	J	mg/Kg		92	75 - 125	10	30

Lab Sample ID: MB 140-43447/14-B ^3
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 43460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.45		7.5	0.45	mg/Kg		10/13/20 08:00	10/27/20 13:09	3

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-43447/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 43460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	4.57	J	mg/Kg		91	75 - 125

Lab Sample ID: LCSD 140-43447/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 43460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	4.38	J	mg/Kg		88	75 - 125	4	30

Lab Sample ID: MB 140-43465/14-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 43495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/14/20 08:00	10/27/20 14:51	1

Lab Sample ID: LCS 140-43465/15-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 43495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.29		mg/Kg		106	75 - 125

Lab Sample ID: LCSD 140-43465/16-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 43495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.17		mg/Kg		103	75 - 125	2	30

Lab Sample ID: MB 140-43496/14-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 43539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/15/20 08:00	10/28/20 11:26	1

Lab Sample ID: LCS 140-43496/15-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 43539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.32		mg/Kg		106	75 - 125

Lab Sample ID: LCSD 140-43496/16-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 43539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.20		mg/Kg		104	75 - 125	2	30

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43540/14-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 43604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.2		38	2.2	mg/Kg		10/19/20 08:00	10/28/20 13:02	5

Lab Sample ID: LCS 140-43540/15-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 43604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	15.0	16.4	J	mg/Kg		109	75 - 125

Lab Sample ID: LCSD 140-43540/16-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 43604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lithium	15.0	17.4	J	mg/Kg		116	75 - 125	6	30

Lab Sample ID: MB 140-43605/14-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 43605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/19/20 08:00	10/28/20 14:45	1

Lab Sample ID: LCS 140-43605/15-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 43605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	4.96		mg/Kg		99	75 - 125

Lab Sample ID: LCSD 140-43605/16-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 43605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lithium	5.00	5.03		mg/Kg		101	75 - 125	1	30

Lab Sample ID: MB 140-43637/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 43637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/20/20 08:00	10/29/20 10:42	1

Lab Sample ID: LCS 140-43637/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 43637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.04		mg/Kg		101	75 - 125

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: LCSD 140-43637/16-A
 Matrix: Solid
 Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
 Prep Type: Step 7
 Prep Batch: 43637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.05		mg/Kg		101	75 - 125	0	30

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Metals

Prep Batch: 43059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Total/NA	Solid	Total	
MB 140-43059/14-A	Method Blank	Total/NA	Solid	Total	
LCS 140-43059/15-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-43059/16-A	Lab Control Sample Dup	Total/NA	Solid	Total	

SEP Batch: 43060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 1	Solid	Exchangeable	
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	

Prep Batch: 43133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 1	Solid	3010A	43060
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	3010A	43060
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	3010A	43060
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	43060

SEP Batch: 43447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 2	Solid	Carbonate	
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	

Prep Batch: 43460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 2	Solid	3010A	43447
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	3010A	43447
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	3010A	43447
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	43447

SEP Batch: 43465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 3	Solid	Non-Crystalline	
MB 140-43465/14-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	

Prep Batch: 43495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 3	Solid	3010A	43465
MB 140-43465/14-B	Method Blank	Step 3	Solid	3010A	43465
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	3010A	43465
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	3010A	43465

SEP Batch: 43496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 4	Solid	Metal Hydroxide	
MB 140-43496/14-B	Method Blank	Step 4	Solid	Metal Hydroxide	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Metals (Continued)

SEP Batch: 43496 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	

Prep Batch: 43539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 4	Solid	3010A	43496
MB 140-43496/14-B	Method Blank	Step 4	Solid	3010A	43496
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	3010A	43496
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	3010A	43496

SEP Batch: 43540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 5	Solid	Organic-Bound	
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	

Prep Batch: 43604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 5	Solid	3010A	43540
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	3010A	43540
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	3010A	43540
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	43540

SEP Batch: 43605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 6	Solid	Acid/Sulfide	
MB 140-43605/14-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-43605/15-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-43605/16-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	

Prep Batch: 43637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 7	Solid	Residual	
MB 140-43637/14-A	Method Blank	Step 7	Solid	Residual	
LCS 140-43637/15-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-43637/16-A	Lab Control Sample Dup	Step 7	Solid	Residual	

Analysis Batch: 43944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 1	Solid	6010B SEP	43133
180-109919-1	WGWC-8-47-57	Step 2	Solid	6010B SEP	43460
180-109919-1	WGWC-8-47-57	Step 3	Solid	6010B SEP	43495
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	6010B SEP	43133
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	6010B SEP	43460
MB 140-43465/14-B	Method Blank	Step 3	Solid	6010B SEP	43495
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	43133
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	43460
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	6010B SEP	43495
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	43133
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	43460

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 180-109919-1

Metals (Continued)

Analysis Batch: 43944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	43495

Analysis Batch: 43997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 4	Solid	6010B SEP	43539
180-109919-1	WGWC-8-47-57	Step 5	Solid	6010B SEP	43604
180-109919-1	WGWC-8-47-57	Step 6	Solid	6010B SEP	43605
MB 140-43496/14-B	Method Blank	Step 4	Solid	6010B SEP	43539
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	6010B SEP	43604
MB 140-43605/14-A	Method Blank	Step 6	Solid	6010B SEP	43605
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	6010B SEP	43539
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	43604
LCS 140-43605/15-A	Lab Control Sample	Step 6	Solid	6010B SEP	43605
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	43539
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	43604
LCSD 140-43605/16-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	43605

Analysis Batch: 44042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Step 7	Solid	6010B SEP	43637
180-109919-1	WGWC-8-47-57	Total/NA	Solid	6010B	43059
MB 140-43059/14-A	Method Blank	Total/NA	Solid	6010B	43059
MB 140-43637/14-A	Method Blank	Step 7	Solid	6010B SEP	43637
LCS 140-43059/15-A	Lab Control Sample	Total/NA	Solid	6010B	43059
LCS 140-43637/15-A	Lab Control Sample	Step 7	Solid	6010B SEP	43637
LCSD 140-43059/16-A	Lab Control Sample Dup	Total/NA	Solid	6010B	43059
LCSD 140-43637/16-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	43637

Analysis Batch: 44104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-109919-1	WGWC-8-47-57	Sum of Steps 1-7	Solid	6010B SEP	

Chain of Custody Record



Environment Testing
America

29/38

7/19/20
 Wm Burke
 Shawn Lin
 205-657-5949

Client Information Client Contact: Adria Reimer Company: Geosyntec Address: 1255 Roberts Blvd NW, Suite 200 City: Kennesaw State, Zip: GA 30144 Phone: 678-202-9564 Email: areimer@geosyntec.com Project Name: GW7327 Site: Plant Wansley		Lab PM: Brown, Shali E-Mail: shall.brown@testamericainc.com Carrier Tracking No(s): FedEx 29467775217	
Due Date Requested: NLT 7/17/2020 TAT Requested (days): 3 day RUSH		Analysis Requested	
Sample Identification WGWC-8 47-57	Sample Date 2020/07/19 09:45	Sample Time 09:45	Sample Type (C=Comp, G=grab) C
Matrix (Water, Solid, Oil) S	Preservation Code: S	Field Filtered Sample (Yes or No) No	Perform MS/MSD (Yes or No) No
Particle Size Reduction 6020 Lithium	Total Number of Containers 1	Special Instructions/Note: Applicable to all samples on COC - perform particle size reduction as needed to ensure homogeneous sample is analyzed	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For 2 Months	
Deliverable Requested: I, II, IV, Other (specify)		Special Instructions/QC Requirements: see special note above	
Empty Kit Relinquished by: Shawn Lin		Method of Shipment:	
Relinquished by: Shawn Lin Relinquished by: [Signature] Relinquished by: [Signature]	Date/Time: 7.9.2020 17:10 Date/Time: 8-20-20 1730	Received by: Adam Penot Received by: [Signature] Received by: [Signature]	Date/Time: 7-10-20 1000 Date/Time: Date/Time:
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	



Martin, Aaron

From: Brown, Shali
Sent: Thursday, August 20, 2020 3:59 PM
To: Martin, Aaron
Subject: 240-133223-1 and 240-133409-1 need these samples sent to Pittsburg please and thank you
Attachments: COC 240-133409 (202007151152).pdf; COC 240-133223 (202007101623).pdf

240-133223-1 and 240-133409-1 need these samples sent to Pittsburg
They should already be crushed (PSR was for whole sample).
Relinquish using the original COC's if possible. If not, I have included a copy of COC for each job.

133223 one sample plastic bag and soil jar C229

133409 seven samples plastic bag all in C238

If not too much trouble.... Can you eyeball about how much sample you have of each one?

Thank You!!
Shali

Please note our adjusted schedule for Labor Day >>

COMMUNICATIONS ALERT: Change of email addresses for all Eurofins TestAmerica staff effective July 9, 2020

Please update my email address Shali.Brown@eurofinset.com in your email directory!

Shali Brown
Project Manager

Eurofins TestAmerica
500 Wilson Pike Circle Suite 100
Brentwood, TN 37027
USA

Phone: 615-301-5031

E-mail: shali.brown@eurofinset.com

www.EurofinsUS.com | www.TestAmericainc.com | [Facebook](#) | [LinkedIn](#)

TestAmerica

ORIGIN ID:PHDA (330) 312-0176
EUROFINS TESTAMERICA CANTON
4101 SHUFFEL STREET NW

SHIP DATE: 20AUG20
ACTWGT: 59.50 LB
CAD: 0562057/CAFE3313

NORTH CANTON, OH 447206900
UNITED STATES US

BILL RECIPIENT

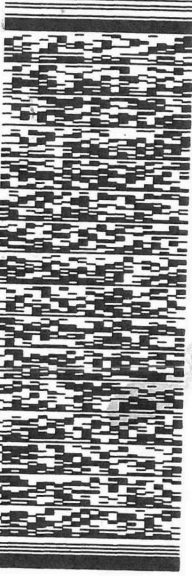
TO ENVIRONMENTAL SAMPLE RECEIPT
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068

DEPT: AL HAIDET



FedEx
Express



FRI - 21 AUG 10:30A
PRIORITY OVERNIGHT

TRK# 9148 7501 0859
0201

65 AGCA

15238
PA-US PIT

Uncorrected Temp
Thermometer ID

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0

Initials

B

PT-VI-SR-001 effective 11/8/18



180-109919 Waybill

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EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?			/	<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA	RT: 3.0 °C CT: 3.0 °C / Scanner checked by cool 10/9/20 TKH/1689 5103 7/6/19 KVL 9/12/20
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10 °C) Thermometer ID: <u>SC68</u> Correction factor: <u>0.0</u>	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	pH test strip lot number: _____
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only)	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	/			<input type="checkbox"/> Residual Chlorine	
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: _____ PM Instructions: _____					

Sample Receiving Associate: Kean Walker Date: 9/12/20

QA026R32.doc, 062719



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-109919-1

Login Number: 109919

List Number: 1

Creator: Say, Thomas C

List Source: Eurofins TestAmerica, Pittsburgh

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	

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-136127-2
Client Project/Site: Plant Wansley GW7327

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
11/10/2020 6:22:12 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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



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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Qualifiers

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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Job ID: 240-136127-2

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-136127-2

Comments

No additional comments.

Receipt

The samples were received on 9/4/2020 11:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

Metals

7 Step Sequential Extraction Procedure

These soil samples were prepared and analyzed using Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Method 6010B as incorporated in Eurofins TestAmerica Knoxville standard operating procedure KNOX-MT-0007 was used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate (MgSO₄), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 2 - Carbonate Fraction: The sample residue from step 1 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Non-crystalline Materials Fraction: The sample residue from step 2 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Metal Hydroxide Fraction: The sample residue from step 3 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Organic-bound Fraction: The sample residue from step 4 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\text{Result, } \mu\text{g/g or mg/Kg, dry weight} = (C \times V \times V1 \times D) / (W \times S \times V2)$$

Where:

- C = Concentration from instrument readout, $\mu\text{g/mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor
- V1 = Total volume of leachate, mL
- V2 = Volume of leachate digested, mL
- W = Wet weight of sample, g
- S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in

Case Narrative

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Job ID: 240-136127-2 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

SEP Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 5 were analyzed at a dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

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



Method Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method	Method Description	Protocol	Laboratory
6010B	SEP Metals (ICP) - Total	SW846	TAL KNX
6010B SEP	SEP Metals (ICP)	SW846	TAL KNX
3010A	Preparation, Total Metals	SW846	TAL KNX
Acid/Sulfide	Sequential Extraction Procedure, Acid/Sulfide Fraction	TAL-KNOX	TAL KNX
Carbonate	Sequential Extraction Procedure, Carbonate Fraction	TAL-KNOX	TAL KNX
Exchangeable	Sequential Extraction Procedure, Exchangeable Fraction	TAL-KNOX	TAL KNX
Metal Hydroxide	Sequential Extraction Procedure, Metal Hydroxide Fraction	TAL-KNOX	TAL KNX
Non-Crystalline	Sequential Extraction Procedure, Non-crystalline Materials	TAL-KNOX	TAL KNX
Organic-Bound	Sequential Extraction Procedure, Organic Bound Fraction	TAL-KNOX	TAL KNX
Residual	Sequential Extraction Procedure, Residual Fraction	TAL-KNOX	TAL KNX
Total	Preparation, Total Material	TAL-KNOX	TAL KNX

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-KNOX = TestAmerica Laboratories, Knoxville, Facility Standard Operating Procedure.

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-136127-1	WGWC-19 87-88	Solid	09/03/20 13:00	09/04/20 11:00	
240-136127-2	WGWC-19 89-90	Solid	09/03/20 13:05	09/04/20 11:00	

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Detection Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 87-88

Lab Sample ID: 240-136127-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.52	J	2.6	0.15	mg/Kg	1	✳	6010B SEP	Step 3
Lithium	11		2.6	0.15	mg/Kg	1	✳	6010B SEP	Step 4
Lithium	5.7	J	39	2.3	mg/Kg	5	✳	6010B SEP	Step 5
Lithium	55		2.6	0.15	mg/Kg	1	✳	6010B SEP	Step 6
Lithium	26		2.6	0.15	mg/Kg	1	✳	6010B SEP	Step 7
Lithium	98		2.5	0.15	mg/Kg	1		6010B SEP	Sum of Steps 1-7
Lithium	86		2.6	0.15	mg/Kg	1	✳	6010B	Total/NA

Client Sample ID: WGWC-19 89-90

Lab Sample ID: 240-136127-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.52	J	2.6	0.16	mg/Kg	1	✳	6010B SEP	Step 3
Lithium	12		2.6	0.16	mg/Kg	1	✳	6010B SEP	Step 4
Lithium	5.1	J	39	2.3	mg/Kg	5	✳	6010B SEP	Step 5
Lithium	45		2.6	0.16	mg/Kg	1	✳	6010B SEP	Step 6
Lithium	20		2.6	0.16	mg/Kg	1	✳	6010B SEP	Step 7
Lithium	83		2.5	0.15	mg/Kg	1		6010B SEP	Sum of Steps 1-7
Lithium	70		2.6	0.16	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 87-88

Lab Sample ID: 240-136127-1

Date Collected: 09/03/20 13:00

Matrix: Solid

Date Received: 09/04/20 11:00

Percent Solids: 97.1

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.62		10	0.62	mg/Kg	☼	09/29/20 08:00	10/27/20 13:00	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.46		7.7	0.46	mg/Kg	☼	10/13/20 08:00	10/27/20 14:41	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.52	J	2.6	0.15	mg/Kg	☼	10/14/20 08:00	10/27/20 16:13	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	11		2.6	0.15	mg/Kg	☼	10/15/20 08:00	10/28/20 12:52	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	5.7	J	39	2.3	mg/Kg	☼	10/19/20 08:00	10/28/20 14:35	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	55		2.6	0.15	mg/Kg	☼	10/19/20 08:00	10/28/20 16:07	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	26		2.6	0.15	mg/Kg	☼	10/20/20 08:00	10/29/20 12:57	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	98		2.5	0.15	mg/Kg			11/02/20 10:26	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	86		2.6	0.15	mg/Kg	☼	09/28/20 08:00	10/29/20 14:47	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 89-90

Lab Sample ID: 240-136127-2

Date Collected: 09/03/20 13:05

Matrix: Solid

Date Received: 09/04/20 11:00

Percent Solids: 96.3

Method: 6010B SEP - SEP Metals (ICP) - Step 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.62		10	0.62	mg/Kg	☼	09/29/20 08:00	10/27/20 13:04	4

Method: 6010B SEP - SEP Metals (ICP) - Step 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.47		7.8	0.47	mg/Kg	☼	10/13/20 08:00	10/27/20 14:46	3

Method: 6010B SEP - SEP Metals (ICP) - Step 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.52	J	2.6	0.16	mg/Kg	☼	10/14/20 08:00	10/27/20 16:27	1

Method: 6010B SEP - SEP Metals (ICP) - Step 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	12		2.6	0.16	mg/Kg	☼	10/15/20 08:00	10/28/20 12:57	1

Method: 6010B SEP - SEP Metals (ICP) - Step 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	5.1	J	39	2.3	mg/Kg	☼	10/19/20 08:00	10/28/20 14:40	5

Method: 6010B SEP - SEP Metals (ICP) - Step 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	45		2.6	0.16	mg/Kg	☼	10/19/20 08:00	10/28/20 16:26	1

Method: 6010B SEP - SEP Metals (ICP) - Step 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	20		2.6	0.16	mg/Kg	☼	10/20/20 08:00	10/29/20 13:02	1

Method: 6010B SEP - SEP Metals (ICP) - Sum of Steps 1-7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	83		2.5	0.15	mg/Kg			11/02/20 10:26	1

Method: 6010B - SEP Metals (ICP) - Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	70		2.6	0.16	mg/Kg	☼	09/28/20 08:00	10/29/20 14:53	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method: 6010B - SEP Metals (ICP) - Total

Lab Sample ID: MB 140-43059/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		09/28/20 08:00	10/29/20 10:56	1

Lab Sample ID: LCS 140-43059/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.17		mg/Kg		103	75 - 125

Lab Sample ID: LCSD 140-43059/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.03		mg/Kg		101	75 - 125	3	30

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43060/14-B ^4
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 1
Prep Batch: 43133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.60		10	0.60	mg/Kg		09/29/20 08:00	10/27/20 11:39	4

Lab Sample ID: LCS 140-43060/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 1
Prep Batch: 43133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.09	J	mg/Kg		102	75 - 125

Lab Sample ID: LCSD 140-43060/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 1
Prep Batch: 43133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	4.61	J	mg/Kg		92	75 - 125	10	30

Lab Sample ID: MB 140-43447/14-B ^3
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 2
Prep Batch: 43460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.45		7.5	0.45	mg/Kg		10/13/20 08:00	10/27/20 13:09	3

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method: 6010B SEP - SEP Metals (ICP) (Continued)

Lab Sample ID: LCS 140-43447/15-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 2
Prep Batch: 43460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	4.57	J	mg/Kg		91	75 - 125

Lab Sample ID: LCSD 140-43447/16-B ^5
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 2
Prep Batch: 43460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	4.38	J	mg/Kg		88	75 - 125	4	30

Lab Sample ID: MB 140-43465/14-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Method Blank
Prep Type: Step 3
Prep Batch: 43495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/14/20 08:00	10/27/20 14:51	1

Lab Sample ID: LCS 140-43465/15-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample
Prep Type: Step 3
Prep Batch: 43495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.29		mg/Kg		106	75 - 125

Lab Sample ID: LCSD 140-43465/16-B
Matrix: Solid
Analysis Batch: 43944

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 3
Prep Batch: 43495

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.17		mg/Kg		103	75 - 125	2	30

Lab Sample ID: MB 140-43496/14-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 4
Prep Batch: 43539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/15/20 08:00	10/28/20 11:26	1

Lab Sample ID: LCS 140-43496/15-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 4
Prep Batch: 43539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.32		mg/Kg		106	75 - 125

Lab Sample ID: LCSD 140-43496/16-B
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 4
Prep Batch: 43539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.20		mg/Kg		104	75 - 125	2	30

Eurofins TestAmerica, Canton

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: MB 140-43540/14-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 5
Prep Batch: 43604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<2.2		38	2.2	mg/Kg		10/19/20 08:00	10/28/20 13:02	5

Lab Sample ID: LCS 140-43540/15-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 5
Prep Batch: 43604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	15.0	16.4	J	mg/Kg		109	75 - 125

Lab Sample ID: LCSD 140-43540/16-B ^5
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 5
Prep Batch: 43604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	15.0	17.4	J	mg/Kg		116	75 - 125	6	30

Lab Sample ID: MB 140-43605/14-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Method Blank
Prep Type: Step 6
Prep Batch: 43605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/19/20 08:00	10/28/20 14:45	1

Lab Sample ID: LCS 140-43605/15-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample
Prep Type: Step 6
Prep Batch: 43605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	4.96		mg/Kg		99	75 - 125

Lab Sample ID: LCSD 140-43605/16-A
Matrix: Solid
Analysis Batch: 43997

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 6
Prep Batch: 43605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.03		mg/Kg		101	75 - 125	1	30

Lab Sample ID: MB 140-43637/14-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Method Blank
Prep Type: Step 7
Prep Batch: 43637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.15		2.5	0.15	mg/Kg		10/20/20 08:00	10/29/20 10:42	1

Lab Sample ID: LCS 140-43637/15-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample
Prep Type: Step 7
Prep Batch: 43637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	5.00	5.04		mg/Kg		101	75 - 125

Eurofins TestAmerica, Canton

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Method: 6010B SEP - SEP Metals (ICP)

Lab Sample ID: LCSD 140-43637/16-A
Matrix: Solid
Analysis Batch: 44042

Client Sample ID: Lab Control Sample Dup
Prep Type: Step 7
Prep Batch: 43637

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	5.00	5.05		mg/Kg		101	75 - 125	0	30

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Metals

Prep Batch: 43059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Total/NA	Solid	Total	
240-136127-2	WGWC-19 89-90	Total/NA	Solid	Total	
MB 140-43059/14-A	Method Blank	Total/NA	Solid	Total	
LCS 140-43059/15-A	Lab Control Sample	Total/NA	Solid	Total	
LCSD 140-43059/16-A	Lab Control Sample Dup	Total/NA	Solid	Total	

SEP Batch: 43060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 1	Solid	Exchangeable	
240-136127-2	WGWC-19 89-90	Step 1	Solid	Exchangeable	
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	Exchangeable	
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	Exchangeable	
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	Exchangeable	

Prep Batch: 43133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 1	Solid	3010A	43060
240-136127-2	WGWC-19 89-90	Step 1	Solid	3010A	43060
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	3010A	43060
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	3010A	43060
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	3010A	43060

SEP Batch: 43447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 2	Solid	Carbonate	
240-136127-2	WGWC-19 89-90	Step 2	Solid	Carbonate	
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	Carbonate	
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	Carbonate	
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	Carbonate	

Prep Batch: 43460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 2	Solid	3010A	43447
240-136127-2	WGWC-19 89-90	Step 2	Solid	3010A	43447
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	3010A	43447
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	3010A	43447
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	3010A	43447

SEP Batch: 43465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 3	Solid	Non-Crystalline	
240-136127-2	WGWC-19 89-90	Step 3	Solid	Non-Crystalline	
MB 140-43465/14-B	Method Blank	Step 3	Solid	Non-Crystalline	
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	Non-Crystalline	
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	Non-Crystalline	

Prep Batch: 43495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 3	Solid	3010A	43465
240-136127-2	WGWC-19 89-90	Step 3	Solid	3010A	43465
MB 140-43465/14-B	Method Blank	Step 3	Solid	3010A	43465

Eurofins TestAmerica, Canton

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Metals (Continued)

Prep Batch: 43495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	3010A	43465
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	3010A	43465

SEP Batch: 43496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 4	Solid	Metal Hydroxide	
240-136127-2	WGWC-19 89-90	Step 4	Solid	Metal Hydroxide	
MB 140-43496/14-B	Method Blank	Step 4	Solid	Metal Hydroxide	
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	Metal Hydroxide	
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	Metal Hydroxide	

Prep Batch: 43539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 4	Solid	3010A	43496
240-136127-2	WGWC-19 89-90	Step 4	Solid	3010A	43496
MB 140-43496/14-B	Method Blank	Step 4	Solid	3010A	43496
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	3010A	43496
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	3010A	43496

SEP Batch: 43540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 5	Solid	Organic-Bound	
240-136127-2	WGWC-19 89-90	Step 5	Solid	Organic-Bound	
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	Organic-Bound	
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	Organic-Bound	
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	Organic-Bound	

Prep Batch: 43604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 5	Solid	3010A	43540
240-136127-2	WGWC-19 89-90	Step 5	Solid	3010A	43540
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	3010A	43540
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	3010A	43540
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	3010A	43540

SEP Batch: 43605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 6	Solid	Acid/Sulfide	
240-136127-2	WGWC-19 89-90	Step 6	Solid	Acid/Sulfide	
MB 140-43605/14-A	Method Blank	Step 6	Solid	Acid/Sulfide	
LCS 140-43605/15-A	Lab Control Sample	Step 6	Solid	Acid/Sulfide	
LCSD 140-43605/16-A	Lab Control Sample Dup	Step 6	Solid	Acid/Sulfide	

Prep Batch: 43637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 7	Solid	Residual	
240-136127-2	WGWC-19 89-90	Step 7	Solid	Residual	
MB 140-43637/14-A	Method Blank	Step 7	Solid	Residual	
LCS 140-43637/15-A	Lab Control Sample	Step 7	Solid	Residual	
LCSD 140-43637/16-A	Lab Control Sample Dup	Step 7	Solid	Residual	

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Metals

Analysis Batch: 43944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 1	Solid	6010B SEP	43133
240-136127-1	WGWC-19 87-88	Step 2	Solid	6010B SEP	43460
240-136127-1	WGWC-19 87-88	Step 3	Solid	6010B SEP	43495
240-136127-2	WGWC-19 89-90	Step 1	Solid	6010B SEP	43133
240-136127-2	WGWC-19 89-90	Step 2	Solid	6010B SEP	43460
240-136127-2	WGWC-19 89-90	Step 3	Solid	6010B SEP	43495
MB 140-43060/14-B ^4	Method Blank	Step 1	Solid	6010B SEP	43133
MB 140-43447/14-B ^3	Method Blank	Step 2	Solid	6010B SEP	43460
MB 140-43465/14-B	Method Blank	Step 3	Solid	6010B SEP	43495
LCS 140-43060/15-B ^5	Lab Control Sample	Step 1	Solid	6010B SEP	43133
LCS 140-43447/15-B ^5	Lab Control Sample	Step 2	Solid	6010B SEP	43460
LCS 140-43465/15-B	Lab Control Sample	Step 3	Solid	6010B SEP	43495
LCSD 140-43060/16-B ^5	Lab Control Sample Dup	Step 1	Solid	6010B SEP	43133
LCSD 140-43447/16-B ^5	Lab Control Sample Dup	Step 2	Solid	6010B SEP	43460
LCSD 140-43465/16-B	Lab Control Sample Dup	Step 3	Solid	6010B SEP	43495

Analysis Batch: 43997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 4	Solid	6010B SEP	43539
240-136127-1	WGWC-19 87-88	Step 5	Solid	6010B SEP	43604
240-136127-1	WGWC-19 87-88	Step 6	Solid	6010B SEP	43605
240-136127-2	WGWC-19 89-90	Step 4	Solid	6010B SEP	43539
240-136127-2	WGWC-19 89-90	Step 5	Solid	6010B SEP	43604
240-136127-2	WGWC-19 89-90	Step 6	Solid	6010B SEP	43605
MB 140-43496/14-B	Method Blank	Step 4	Solid	6010B SEP	43539
MB 140-43540/14-B ^5	Method Blank	Step 5	Solid	6010B SEP	43604
MB 140-43605/14-A	Method Blank	Step 6	Solid	6010B SEP	43605
LCS 140-43496/15-B	Lab Control Sample	Step 4	Solid	6010B SEP	43539
LCS 140-43540/15-B ^5	Lab Control Sample	Step 5	Solid	6010B SEP	43604
LCS 140-43605/15-A	Lab Control Sample	Step 6	Solid	6010B SEP	43605
LCSD 140-43496/16-B	Lab Control Sample Dup	Step 4	Solid	6010B SEP	43539
LCSD 140-43540/16-B ^5	Lab Control Sample Dup	Step 5	Solid	6010B SEP	43604
LCSD 140-43605/16-A	Lab Control Sample Dup	Step 6	Solid	6010B SEP	43605

Analysis Batch: 44042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Step 7	Solid	6010B SEP	43637
240-136127-1	WGWC-19 87-88	Total/NA	Solid	6010B	43059
240-136127-2	WGWC-19 89-90	Step 7	Solid	6010B SEP	43637
240-136127-2	WGWC-19 89-90	Total/NA	Solid	6010B	43059
MB 140-43059/14-A	Method Blank	Total/NA	Solid	6010B	43059
MB 140-43637/14-A	Method Blank	Step 7	Solid	6010B SEP	43637
LCS 140-43059/15-A	Lab Control Sample	Total/NA	Solid	6010B	43059
LCS 140-43637/15-A	Lab Control Sample	Step 7	Solid	6010B SEP	43637
LCSD 140-43059/16-A	Lab Control Sample Dup	Total/NA	Solid	6010B	43059
LCSD 140-43637/16-A	Lab Control Sample Dup	Step 7	Solid	6010B SEP	43637

Analysis Batch: 44106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-136127-1	WGWC-19 87-88	Sum of Steps 1-7	Solid	6010B SEP	
240-136127-2	WGWC-19 89-90	Sum of Steps 1-7	Solid	6010B SEP	

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 87-88
Date Collected: 09/03/20 13:00
Date Received: 09/04/20 11:00

Lab Sample ID: 240-136127-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1	44106	11/02/20 10:26	DKW	TAL KNX

Client Sample ID: WGWC-19 87-88
Date Collected: 09/03/20 13:00
Date Received: 09/04/20 11:00

Lab Sample ID: 240-136127-1
Matrix: Solid
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1	44042	10/29/20 14:47	KNC	TAL KNX
Step 1	SEP	Exchangeable			43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4	43944	10/27/20 13:00	KNC	TAL KNX
Step 2	SEP	Carbonate			43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3	43944	10/27/20 14:41	KNC	TAL KNX
Step 3	SEP	Non-Crystalline			43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1	43944	10/27/20 16:13	KNC	TAL KNX
Step 4	SEP	Metal Hydroxide			43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1	43997	10/28/20 12:52	KNC	TAL KNX
Step 5	SEP	Organic-Bound			43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5	43997	10/28/20 14:35	KNC	TAL KNX
Step 6	SEP	Acid/Sulfide			43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1	43997	10/28/20 16:07	KNC	TAL KNX
Step 7	Prep	Residual			43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1	44042	10/29/20 12:57	KNC	TAL KNX

Client Sample ID: WGWC-19 89-90
Date Collected: 09/03/20 13:05
Date Received: 09/04/20 11:00

Lab Sample ID: 240-136127-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Sum of Steps 1-7	Analysis	6010B SEP		1	44106	11/02/20 10:26	DKW	TAL KNX

Client Sample ID: WGWC-19 89-90
Date Collected: 09/03/20 13:05
Date Received: 09/04/20 11:00

Lab Sample ID: 240-136127-2
Matrix: Solid
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Total			43059	09/28/20 08:00	KNC	TAL KNX
Total/NA	Analysis	6010B		1	44042	10/29/20 14:53	KNC	TAL KNX
Step 1	SEP	Exchangeable			43060	09/28/20 08:00	KNC	TAL KNX
Step 1	Prep	3010A			43133	09/29/20 08:00	KNC	TAL KNX
Step 1	Analysis	6010B SEP		4	43944	10/27/20 13:04	KNC	TAL KNX

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Client Sample ID: WGWC-19 89-90

Lab Sample ID: 240-136127-2

Date Collected: 09/03/20 13:05

Matrix: Solid

Date Received: 09/04/20 11:00

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Step 2	SEP	Carbonate			43447	10/12/20 10:01	KNC	TAL KNX
Step 2	Prep	3010A			43460	10/13/20 08:00	KNC	TAL KNX
Step 2	Analysis	6010B SEP		3	43944	10/27/20 14:46	KNC	TAL KNX
Step 3	SEP	Non-Crystalline			43465	10/13/20 08:00	KNC	TAL KNX
Step 3	Prep	3010A			43495	10/14/20 08:00	KNC	TAL KNX
Step 3	Analysis	6010B SEP		1	43944	10/27/20 16:27	KNC	TAL KNX
Step 4	SEP	Metal Hydroxide			43496	10/14/20 08:00	KNC	TAL KNX
Step 4	Prep	3010A			43539	10/15/20 08:00	KNC	TAL KNX
Step 4	Analysis	6010B SEP		1	43997	10/28/20 12:57	KNC	TAL KNX
Step 5	SEP	Organic-Bound			43540	10/15/20 08:00	KNC	TAL KNX
Step 5	Prep	3010A			43604	10/19/20 08:00	KNC	TAL KNX
Step 5	Analysis	6010B SEP		5	43997	10/28/20 14:40	KNC	TAL KNX
Step 6	SEP	Acid/Sulfide			43605	10/19/20 08:00	KNC	TAL KNX
Step 6	Analysis	6010B SEP		1	43997	10/28/20 16:26	KNC	TAL KNX
Step 7	Prep	Residual			43637	10/20/20 08:00	KNC	TAL KNX
Step 7	Analysis	6010B SEP		1	44042	10/29/20 13:02	KNC	TAL KNX

Laboratory References:

TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Wansley GW7327

Job ID: 240-136127-2

Laboratory: Eurofins TestAmerica, Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-22
ANAB	Dept. of Energy	L2311.01	02-13-22
ANAB	ISO/IEC 17025	L2311	02-13-22
ANAB	ISO/IEC 17025	L2311	02-14-22
Arkansas DEQ	State	88-0688	06-17-21
California	State	2423	06-30-21
Colorado	State	TN00009	02-28-21
Connecticut	State	PH-0223	09-30-21
Florida	NELAP	E87177	07-01-21
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-21
Kansas	NELAP	E-10349	11-01-20 *
Kentucky (DW)	State	90101	01-01-21
Louisiana	NELAP	LA110001	12-31-12 *
Louisiana	NELAP	83979	06-30-21
Louisiana (DW)	State	LA019	12-31-20
Maryland	State	277	03-31-21
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-21
New Hampshire	NELAP	299919	01-17-21
New Jersey	NELAP	TN001	07-01-21
New York	NELAP	10781	03-31-21
North Carolina (DW)	State	21705	07-31-21
North Carolina (WW/SW)	State	64	12-31-20
Ohio VAP	State	CL0059	06-02-23
Oklahoma	State	9415	08-31-21
Oregon	NELAP	TNI0189	01-02-21
Pennsylvania	NELAP	68-00576	12-31-20
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-21
Virginia	NELAP	460176	09-14-21
Washington	State	C593	01-19-21
West Virginia (DW)	State	9955C	01-01-21
West Virginia DEP	State	345	05-01-21
Wisconsin	State	998044300	08-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record

2.0/3.5



Client Information		Sampler: Will Burke		Lab PM: Brown, Shall		Carrier Tracking No(s):		COC No:	
Client Contact: Adria Reimer		Phone: 205-657-5949		E-Mail: shall.brown@teslamericainc.com		Page: 1 of 1		Job #:	
Company: Geosyntec		Address: 1255 Roberts Blvd NW, Suite 200		Due Date Requested:		Analysis Requested		Preservation Codes:	
City: Kennesaw		State, Zip: GA 30144		TAT Requested (days): -3 day RUSH		Field Filtered Sample (Yes or No)		A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Nitric Acid R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: 678-202-9564		PO #: [Redacted]		WO #:		Perform MSM/SD (Yes or No)		Other:	
Email: areimer@geosyntec.com		Project #: 18019922		SSOW#:		Particle Size Reduction		Special Instructions/Note:	
City: Plant Wansley		Sample Date		Sample Time		6020 Lithium		For samples requiring detailed analysis - perform particle size reduction as needed to ensure homogeneous sample is analyzed	
Sample Identification		Sample Type (C=Comp, G=grab)		Sample Time		Sequential Extraction - Lithium		Total Number of Containers	
WGWC-19 87-88		G		9-3-20 1300		X X		X	
WGWC-19 89-90		G		1305		X X		X	
[Redacted]		[Redacted]		[Redacted]		[Redacted]		[Redacted]	
Possible Hazard Identification		Sample Date		Sample Time		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
[X] Non-Hazard		9-3-20 1300		1305		X X		For samples requiring detailed analysis - perform particle size reduction as needed to ensure homogeneous sample is analyzed	
[] Flammable		9-3-20 1300		1305		X X		Total Number of Containers	
[] Skin Irritant		9-3-20 1300		1305		X X		Sequential Extraction - Lithium	
[] Unknown		9-3-20 1300		1305		X X		Particle Size Reduction	
[] Radiological		9-3-20 1300		1305		X X		Perform MSM/SD (Yes or No)	
Deliverable Requested: (I, II, III, IV, Other (specify))		Sample Date		Sample Time		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
[] I, [] II, [] III, [] IV, [] Other (specify)		9-3-20 1300		1305		X X		For samples requiring detailed analysis - perform particle size reduction as needed to ensure homogeneous sample is analyzed	
Empty Kit Relinquished by:		Sample Date		Sample Time		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Relinquished by: [Signature]		9-3-20 1300		1305		X X		For samples requiring detailed analysis - perform particle size reduction as needed to ensure homogeneous sample is analyzed	
Relinquished by:		9-3-20 1300		1305		X X		Total Number of Containers	
Relinquished by:		9-3-20 1300		1305		X X		Sequential Extraction - Lithium	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Sample Date		Sample Time		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Custody Seal No.:		9-3-20 1300		1305		X X		For samples requiring detailed analysis - perform particle size reduction as needed to ensure homogeneous sample is analyzed	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Date		Sample Time		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
[] Return To Client [] Disposal By Lab [X] Archive For 2 Months		9-3-20 1300		1305		X X		For samples requiring detailed analysis - perform particle size reduction as needed to ensure homogeneous sample is analyzed	
Special Instructions/QC Requirements: see special note above		Sample Date		Sample Time		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Method of Shipment:		9-3-20 1300		1305		X X		For samples requiring detailed analysis - perform particle size reduction as needed to ensure homogeneous sample is analyzed	
Received by: [Signature]		9-3-20 1300		1305		X X		Total Number of Containers	
Received by:		9-3-20 1300		1305		X X		Sequential Extraction - Lithium	
Received by:		9-3-20 1300		1305		X X		Particle Size Reduction	
Cooler Temperature(s) °C and Other Remarks:		9-3-20 1300		1305		X X		Perform MSM/SD (Yes or No)	



Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 136127

Canton Facility

Client Geo Sytec Site Name _____

Cooler unpacked by:
Math Simpson

Cooler Received on 9-4-20 Opened on 9-4-20

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time

Storage Location

TestAmerica Cooler # NA Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.5 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC911298
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ← Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

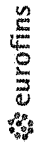
19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins TestAmerica, Canton
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Sampler:	Lab P/N:	Carrier Tracking No(s):	COC No:
Shipping/Receiving		Phone:	Brown, Shali	State of Origin:	240-124993.1
Company: TestAmerica Laboratories, Inc.		E-Mail:	Shali.Brown@Eurofinset.com	Page:	Page 1 of 1
Address: 5815 Middlebrook Pike,		Accreditations Required (See note):		Job #:	240-136127-2
City: Knoxville	Due Date Requested:	Analysis Requested			
State, Zip: TN, 37921	TAT Requested (days):	601B_SEP/SEP1_MgSO4 (MOD) Step 1			
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:	601B_SEP/SEP2_NaOAc (MOD) Step 2	601B_SEP/SEP3_Oxalate (MOD) Step 3	601B_SEP/SEP4_Hydroxyl (MOD) Step 4	601B_SEP/SEP5_NaClO (MOD) Step 5
E-mail:	WO #:	601B_SEP/SEP6_NaClO (MOD) Step 6	601B_SEP/SEP7_LM Prep (MOD) Step 7	601B_SEP/SEP8_Acid (MOD) Step 8	601B_SEP/SEP9_Tot Prep (MOD) Total
Project Name: CCR - Plant Wansley	Project #:	Total Number of Containers			
Site: Wansley CCR	18019922	Perform MS/MSD (Yes or No)			
	SSOW#:	Field Filtered Sample (Yes or No)			
		Preservation Code			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (Water, Swab, On-wastebill, BFT-tissue, A-Air)	Special Instructions/Note:
WGWC-19 87-88 (240-136127-1)	9/3/20	13:00 Eastern	Solid	Solid	
WGWC-19 89-90 (240-136127-2)	9/3/20	13:05 Eastern	Solid	Solid	
NO CUSTOMY SEALS					
RECEIVED AT 0.6/CTO.6 C					
BND 9-10-20					
100001 FAX# 9187501 2510 PD					
240-136127 Chain of Custody					
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This document is to maintain accreditation in the State of Origin. Listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status must be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Relinquished by: C. Dent					
Date/Time: 9-9-20 1620					
Company: 240					
Relinquished by:					
Date/Time: 9-9-20 10:30					
Company: ECA					
Relinquished by:					
Date/Time:					
Company:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No.:					
Cooler Temperature(s) °C and Other Remarks:					

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?	/			<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: <u>5668</u> Correction factor: <u>0.0</u>	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	pH test strip lot number: _____
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only)	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	/			<input type="checkbox"/> Residual Chlorine	
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: _____ PM Instructions: _____					

Sample Receiving Associate: Russell Date: 9-10-20 QA026R32.doc, 062719

